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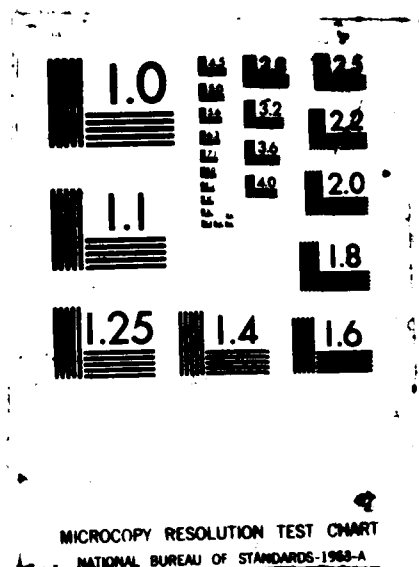
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REPORTS

January 1986 - December 1986

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Accession #:U00014 AD #:
TITLE: Eris Status Meeting Report
AUTHOR:
DATE: 04/01/86 Report #: LMSC-F133912
Corp.Author: Lockheed Missiles and Space Company, Inc., Sunnyvale, CA 94086
Index Terms: Program Management Funding Financial Status
Pgs: 43 Classification: U Security Marks:

Accession #:U00221 AD #:
TITLE: Status of the Intercontinental Ballistic Missile Modernization Program
AUTHOR: Bowsher, Charles A.
DATE: 07/08/85 Report #: GAO/NSIAD-85-78
Corp.Author: U.S. GAO, P.O. Box 6015, Gaithersburg, Md. 20877
Index Terms: ICBM Modernization Operational Life Cycle Cost Development Performance Production
Pgs: 23 Classification: U Security Marks:

Accession #:U00222 AD #: ADA118254
TITLE: Software Testing Measures
AUTHOR: Heidler, W.; Benson, J.; Meeson, R.; Kerbal, A.; Pyster, A.
DATE: 05/01/82 Report #: RADC-TR-82-135
Corp.Author: General Research Corp., P.O. Box 6770, Santa Barbara, CA93111
Index Terms: Software Testing Computer Program Automated Tools Verification
Pgs: 362 Classification: U Security Marks:

Accession #:U00223 AD #: ADA137957
TITLE: Software Quality Measurement for Distributed Systems; Distributed Computing System: Impact on Software Quality
AUTHOR: Bowen, T.P.; Post, J.V.; Tsia, T.; Presson, P.E.; Schmidt R.
DATE: 07/01/83 Report #: RADC-TR-83-175
Corp.Author: Boeing Aerospace Co., P.O. Box 3999, Seattle, WA 98124
Index Terms: Software Quality Metric Measurement System Distributed Computing Life-Cycle Activity
Pgs: 228 Classification: U Security Marks:

Accession #:U00224 AD #: ADA122256
TITLE: A Dispersed Radar Concept for Air Defense
AUTHOR: Spaulding, William G.
DATE: 07/01/81 Report #: RE-B1-27
Corp.Author: Commander, U.S. Army Missile Command, ATTN: DRSMI-RE, Redstone Arsenal, AL 35898
Index Terms: Radar Antenna Digital Beamforming Bistatic Array Surveillance Transmitter Receiver Long Range
Pgs: 55 Classification: U Security Marks:



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Accession #:U00225 AD #: ADA138113
TITLE: Mirror Antenna Dual-Band Lightweight Mirror Design
AUTHOR: Howard, Dean D.; Cross, David C.
DATE: 12/12/83 Report #: 8765
Corp.Author: Naval Research Lab., Washington D.C. 20375
Index Terms: Radar Mirror Scan Tracker Anti-air Warfare Weapon
Fire Control Point Defense Dual-Band Fabrication
Pgs: 25 Classification: U Security Marks:

Accession #:U00226 AD #: ADA107642
TITLE: Piezoelectric PVF-2 Polymer Films and Devices
AUTHOR: Weinstein, D.G.; Shaw, H.J.
DATE: 11/01/81 Report #: G.L. 3355
Corp.Author: Stanford Univ., Edward L. Ginzton Lab., Stanford, CA 94305
Index Terms: Piezoelectric Film Transducer Polyvinylidene Fluoride
Phased Acoustic Array Imaging Bulk-Wave
Pgs: 126 Classification: U Security Marks:

Accession #:U00227 AD #: ADA097899
TITLE: Progress Toward a Monolithically Integrated Coherent Diode
Laser Array
AUTHOR: Evans, G.A.; Garmire, E.M.; Stoll, H.M.; Osmer, J.A.
DATE: 02/20/81 Report #: SD-TR-81-7
Corp.Author: The Aerospace Corp., El Segundo, CA 90245
Index Terms: Integrated Diode Array Semiconductor Coupled
Monolithic DBR Laser Photoresist Characterization
Pgs: 204 Classification: U Security Marks:

Accession #:U00228 AD #: ADA135775
TITLE: Program Mutation: An Approach to Software Testing
AUTHOR: Demillo, Richard A.
DATE: 04/01/83 Report #: GIT-ICS-83/07
Corp.Author: Ga. Inst. of Tech., School of Information and Computer
Science, Atlanta GA 30332
Index Terms: Program Mutation Testing Correctness Error
Classification Adequacy Reliability Implementation
Pgs: 306 Classification: U Security Marks:

Accession #:U00229 AD #: ADA126214
TITLE: EHF Dielectric Lens Antenna for Satellite Communication
System
AUTHOR: Rotman, Walter
DATE: 01/03/83 Report #: ESD-TR-82-102
Corp.Author: Mass. Inst. of Tech., Lincoln Laboratory, P.O. Box 73,
Lexington, MA 02173-0073
Index Terms: EHF Satellite Communication MBA Antenna Lens
Dielectric Scan Fabricate Millimeter Multibeam
Pgs: 90 Classification: U Security Marks:

Accession #:U00230 AD #: ADA130015
TITLE: A Digital Beamforming Array
AUTHOR: Loomis, J.M.; Rose, J.F.
DATE: 05/01/83 Report #: TR-RE-83-21
Corp.Author: Commander, US Army Missile Command, ATTN: DRSMI-RER,
Redstone Arsenal, AL 35898
Index Terms: Array Digital Beamforming Multi-Receiver Signal
Processing RF Amplitude
Pgs: 92 Classification: U Security Marks:

Accession #:U00231 AD #: ADA100035
TITLE: A Cartographic Electron Beam Scanner Design Study
AUTHOR: Grosso, Patrick F.; Tarnowski, Andrew A.
DATE: 04/01/81 Report #: ETL-0257
Corp.Author: Image Graphics Inc., 107 Ardmore St., Fairfield, CT
06430
Index Terms: Scanner Digitize Electron Beam Scintillator
Cartographic System Program
Pgs: 46 Classification: U Security Marks:

Accession #:U00232 AD #: ADA145493
TITLE: DoD Related Software Technology Requirements, Practices,
and Prospects for the Future
AUTHOR: Redwine, S.T., Jr; Becker, L.G.; Martin, R.J.; Nash, S.H.
DATE: 06/01/84 Report #: P-1788
Corp.Author: Institute for Defense Analysis, 1801 N. Beauregard St.,
Alexandria, VA 22311
Index Terms: Computer Program Reliability Verification Military
Requirement Technology Transfer Software Development
Pgs: 351 Classification: U Security Marks:

Accession #:U00236 AD #: ADA134873
TITLE: Evaluation of Semiconducting Augmentation on a Rail Gun
System
AUTHOR: Homan, C.G.; Schol, W.
DATE: 06/01/83 Report #: ARLCB-TR-83016
Corp.Author: US Army Armament Res. and Dev. Command, Benet Weapons
Lab., Watervliet, NJ 12189
Index Terms: Rail Gun Launch Efficiency Superconducting
Augmentation System Current Energy
Pgs: 24 Classification: U Security Marks:

Accession #:U00237 AD #: ADA139529
TITLE: Experimental Electromagnetic Launchers at MRL
AUTHOR: Bedford, A.J.; Clark, G.A.; Thio, Y-C
DATE: 08/01/83 Report #: MRL-R-894
Corp.Author: Materials Research Laboratory, P.O. Box 50, Ascot Vale,
Victoria 3032
Index Terms: Electric Gun Design Construction Small Calibre
Pgs: 31 Classification: U Security Marks:

Accession #:U00238 AD #: ADA142790
TITLE: Performance Results of a Small-Calibre Electromagnetic
Launcher
AUTHOR: Clark, G.A.; Bedford, A.J.
DATE: 02/01/84 Report #: MRL-R-917
Corp.Author: Materials Research Laboratory, P.O. Box 50, Ascot Vale,
Victoria 3032
Index Terms: Electric Rail Gun Launcher Experiment Design Circuit
Parameter Instrumentation
Pgs: 35 Classification: U Security Marks:

Accession #:U00239 AD #: ADA131024
TITLE: Para: A Computer Simulation Code for Plasma Driven
Electromagnetic Launchers
AUTHOR: Thio, Y-C
DATE: 03/01/83 Report #: MRL-R-873
Corp.Author: Materials Research Laboratory, P.O. Box 50, Ascot Vale,
Victoria 3032
Index Terms: Electric Gun Computer Simulation Rail-Type
Accelerator Plasma Armature Development
Pgs: 29 Classification: U Security Marks:

Accession #:U00240 AD #: ADA131153
TITLE: A Laboratory Arc Driven Rail Gun
AUTHOR: Jamison, K.A., Dr.; Burden, Henry S.
DATE: 06/01/83 Report #: ARBRL-TR-02502
Corp.Author: US Army Ballistic Res. Lab., ATTN: DRDAR-BLB, Aberdeen
Proving Ground, MD
Index Terms: Rail Gun Arc Driven Armature Dynamics Macroparticle
Plasma Propulsion Performance Arc
Pgs: 52 Classification: U Security Marks:

Accession #:U00241 AD #: ADA120752
TITLE: Design, Assembly and Testing of Modifications to the
Homopolar Generator and Plasma Switch Experiments
AUTHOR: Comisso, Robert J.; Cameron, James M.; Crosariol, Richard
C.
DATE: 10/08/82 Report #: J206-B2-009/6215
Corp.Author: JAYCOR, 205 S. Whiting St., Alexandria, VA 22304
Index Terms: Energy Nuclear Generate High Power Electron-Beam
Inductive Storage Switch Plasma EACB Homopolar Coil
Pgs: 40 Classification: U Security Marks:

Accession #:U00242 AD #: ADA138790
TITLE: Effects of Atmospheric Air on Projectile Acceleration in
the Rail Gun
AUTHOR: Powell, John D.
DATE: 02/01/84 Report #: ARBRL-MR-03332
Corp.Author: US Army Ballistic Res. Lab., ATTN: DRSMC-BLB(A),
Aberdeen Proving Ground, MD
Index Terms: Rail Gun Electromagnetic Propulsion Hypervelocity

Acceleration Atmospheric Drag Projectile Velocity
Pgs: 15 Classification: U Security Marks:

Accession #:U00243 AD #: ADA142482
TITLE: Design Issues in Parallel Architectures for Artificial
Intelligence
AUTHOR: Hewitt, Carl; Lieberman, Henry
DATE: 11/01/83 Report #: AIM 750
Corp.Author: Artificial Intelligence Laboratory, 545 Technology
Square, Cambridge, MA 02139
Index Terms: Design Architecture Parallelism Artificial
Intelligence Message Passing Development
Pgs: 14 Classification: U Security Marks:

Accession #:U00244 AD #: ADA126413
TITLE: KBS: An Artificial Intelligence Approach to Flexible
Simulation
AUTHOR: Reddy, Y.V.; Fox, Mark S.
DATE: 02/22/82 Report #: CMU-RI-TR-82-1
Corp.Author: Carnegie-Mellon Univ., Robotics Inst., Pittsburgh, PA
15213
Index Terms: KBS SRL Alteration Graphic Instrumentation Artificial
Intelligence
Pgs: 31 Classification: U Security Marks:

Accession #:U00245 AD #: ADA141818
TITLE: Hypervelocity Track Tests of the Ablative Characteristics
of Heatshield Materials for the NASA Galileo Probe
AUTHOR: Adams, A.M.; Calspan Field Services, Inc.
DATE: 08/01/81 Report #: AEDC-TSR-81-V25
Corp.Author: Arnold Eng. Dev. Center, Air Force Systems Command,
Arnold AFS, TN 37389
Index Terms: Heatshield NASA Galileo Probe Characteristic
Measurement
Pgs: 20 Classification: U Security Marks:

Accession #:U00246 AD #: ADA140303
TITLE: Analysis of Rail Gun Bore Residue
AUTHOR: Jamison, K.A.; Burden, H.S.; Niller, A.; Marquez-Reines, M.
DATE: 03/01/84 Report #: ARBRL-TR-02554
Corp.Author: US Army Ballistic Res. Lab., ATTN: DRSMC-BLB(A),
Aberdeen Proving Ground, MD
Index Terms: Rail Gun Arc Dynamics Armature Soot Nuclear Analysis
Plasma Residue Beryllium Disk Backscatter
Pgs: 23 Classification: U Security Marks:

Accession #:U00247 AD #: ADA141717
TITLE: Strategic Computing and Survivability Research: First
Quarterly Technical Report
AUTHOR: Tatalias, K.D.; Dundervill, R.F.; Kushner, B.G.; Porter, D.
DATE: 04/10/84 Report #:
Corp.Author: BDM Corp., 7915 Jones Branch Dr., McLean, VA 22102
Index Terms: Machine Intelligence Strategy Survivability Computer
Architecture Technology DARPA
Pgs: 6 Classification: U Security Marks:

Accession #:U00248 AD #: ADA117692
TITLE: Electromagnetic Launchers: Background and the MRL Program
AUTHOR: Thio, Y.C.
DATE: 03/01/82 Report #:
Corp.Author: Materials Research Laboratory, P.O. Box 50, Ascot Vale,
Victoria 3032
Index Terms: Electromagnetic Launcher Rail Gun Ionised Gas Plasma
Physics Thermonuclear Impact Fusion Magnetic Field
Pgs: 23 Classification: U Security Marks:

Accession #:U00249 AD #: ADA100367
TITLE: Negotiation as a Metaphor for Distributed Problem Solving
AUTHOR: Randall, Davis
DATE: 05/01/81 Report #: AIM-624
Corp.Author: Artificial Intelligence Laboratory, 545 Technology
Square, Cambridge, MA 02139
Index Terms: Contact Net Problem Solving Loosely Coupled System
PLANNER CONNIVER HEARSAY-II
Pgs: 43 Classification: U Security Marks:

Accession #:U00250 AD #: ADA126345
TITLE: The Intelligent Management System: An Overview
AUTHOR: Fox, Mark S.
DATE: 12/07/82 Report #: CMU-RI-TR-B1-4
Corp.Author: Carnegie-Mellon Univ., Robotics Inst., Pittsburgh, PA
15213
Index Terms: IMS System Architecture Technique Schedule Organize
Pgs: 35 Classification: U Security Marks:

Accession #:U00251 AD #: ADA114154
TITLE: Laboratory Demonstration Electromagnetic Launcher
AUTHOR: Deis, D.W.
DATE: 01/29/82 Report #:
Corp.Author: Dept. of the Army, ARRADCOM, Dover, NJ 07081
Index Terms: Electromagnetic Launcher Demonstration Hazard Safety
Operation DARPA Damage
Pgs: 23 Classification: U Security Marks:

Accession #:U00252 AD #: ADA094212
TITLE: Boundary-Layer Transition on Large-Scale CMT Graphite
Nosetips at Reentry Position
AUTHOR: Raper, R.M., ARD Inc.
DATE: 01/01/81 Report #: AEDC-TR-79-45
Corp.Author: Arnold Eng. Dev. Center, Air Force Systems Command,
Arnold AFS, TN 37389
Index Terms: CMT Graphite Nosetip Boundary Layer Transition
Turbulent Flow Hypervelocity Radiation Pyrometer
Pgs: 42 Classification: U Security Marks:

Accession #:U00253 AD #: ADA129273
TITLE: Electric Propulsion of Spacecraft
AUTHOR: Fearn, D.G.
DATE: 10/01/81 Report #: TR-B1131
Corp.Author: Royal Aircraft Establishment, Farnborough, Hants UK
Index Terms: Electric Propulsion Technology Exhaust Velocity
Propellant Mass Thruster Kaufman Electron Bombardment
Pgs: 30 Classification: U Security Marks:

Accession #:U00254 AD #: ADA131507
TITLE: Modified QKLOOK Program
AUTHOR: Steenrod, F.J.; Musch, J.F.
DATE: 07/18/83 Report #: 79-V-008
Corp.Author: Joint Technical Coordinating Group for Aircraft
Survivability
Index Terms: QKLOOK Modification FORTRAN DHEW Vulnerability
Computer FASTGEN MAGIC
Pgs: 317 Classification: U Security Marks:

Accession #:U00255 AD #: ADA105666
TITLE: A Model for Deliberation, Action and Introspection
AUTHOR: Doyle, John
DATE: 05/01/80 Report #: TR-581
Corp.Author: Artificial Intelligence Laboratory, 545 Technology
Square, Cambridge, MA 02139
Index Terms: Artificial Intelligence Deliberate Action Problem
Solving Computer Knowledge Representation Planning
Pgs: 249 Classification: U Security Marks:

Accession #:U00256 AD #: ADA145134
TITLE: MIT Laboratory for Computer Science: Progress Report 20
AUTHOR: Detouzos, M.L.
DATE: 07/01/84 Report #: 20
Corp.Author: MIT Laboratory for Computer Science, 545 Technology
Square, Cambridge, MA 02139
Index Terms: Computer Architecture Language Network System
Dataflow Real Time VLSI Hardware
Pgs: 225 Classification: U Security Marks:

Accession #:U00257 AD #: ADA146908
TITLE: Influence Large Scale Computing on Aircraft Structural Design
AUTHOR:
DATE: 08/01/84 Report #: 706
Corp.Author: AGARD/NATO, 7 rue Ancelle, 92200 Neuilly sur Seine, France
Index Terms: Aircraft Airframe Structural Design Computation
Computer Program
Pgs: 54 Classification: U Security Marks:

Accession #:U00258 AD #: ADA144653
TITLE: Studies of Compound States of Atomic Negative Ions Using Laser Beams
AUTHOR: Compton, R.N.; Alton, G.D.
DATE: 07/01/84 Report #: N00014-84-F-0008
Corp.Author: Oak Ridge Nat. Laboratory, P.O. Box X, Oak Ridge, TN 37831
Index Terms: Negative Ion Beam Laser Photodetachment
Neutralization Atomic Electron Study Autodetachment
Pgs: 30 Classification: U Security Marks:

Accession #:U00259 AD #: ADA138390
TITLE: Negative-Ion Formation from Surface Scattering and the Anderson Correlation Energy U
AUTHOR: Kai-Shue Lam, K.C.; George, T.F.
DATE: 02/01/84 Report #: UROCHESTER/DC/84/TR-49
Corp.Author: Univ. of Rochester, Dept. of Chemistry, Rochester, NY 14627
Index Terms: Negative Positive Ion Formation Surface Scattering
Correlation Energy Experiment Electron Transfer
Pgs: 17 Classification: U Security Marks:

Accession #:U00260 AD #: ADA119913
TITLE: Comments on Ferrite Phase Shifter Configurations for the Millimeter Wave Region
AUTHOR: Reuss, M.L., Jr
DATE: 09/28/82 Report #: NRL4921
Corp.Author: Naval Research Laboratory, Washington D.C. 20360
Index Terms: Millimeter Wave Phase Shifter Configuration Microwave
Electromagnetic
Pgs: 13 Classification: U Security Marks:

Accession #:U00261 AD #: ADA143628
TITLE: Highly Accurate Inflatable Reflectors
AUTHOR: Veal, Gordon; Thomas, Mitchell
DATE: 05/01/84 Report #: AFRPL-TR-84-021
Corp.Author: L'Garde Inc., 1555 Placentia Ave., CA 92663
Index Terms: Inflatable Reflector Deployable Antenna SBIR
Pgs: 40 Classification: U Security Marks:

Accession #:U00262 AD #: ADA077362
TITLE: Long Duration Exposure Emulsion Package (LDEEP)
AUTHOR: Filz, R.C.
DATE: 07/19/79 Report #: AFGL-TR-79-0156
Corp.Author: Air Force Geophysics Lab., Hanscom AFB, MA 01731

Index Terms: Trapped Proton Space Shuttle Experiment Plastic Track
Detector Exposure Corpuscular Photography
Pgs: 15 Classification: U Security Marks:

Accession #:U00263 AD #: ADA135176
TITLE: Production of Negative Ions by Electron Impact
AUTHOR: Srivastava, S.K.
DATE: 10/01/82 Report #: AFOSR-TR-83-0880
Corp.Author: Cal. Inst. of Tech., Jet Propulsion Lab., 4800 Oak Grove
Dr., Pasadena CA 91109
Index Terms: Negative Ion Electron Impact Space-Based Beam Weapon
Pgs: 71 Classification: U Security Marks:

Accession #:U00264 AD #: ADA072484
TITLE: Analytical and Experimental Evaluation of Two Designs for a
Graphite/Epoxy Antenna Feed Truss for a Communications
AUTHOR: Orringer, O.; McCarthy, J.F., Jr.; Weinreich, M.; Harris,
A.
DATE: 06/01/78 Report #: AFFDL-TR-78-78
Corp.Author: MIT, Center for Space Research, Cambridge, MA 02139
Index Terms: Composite Material Graphite Epoxy Large Space Tubular
Structure Satellite Antenna Communication
Pgs: 320 Classification: U Security Marks:

Accession #:U00265 AD #: ADA111970
TITLE: Ballistic Missile Defense Weapons
AUTHOR: Liu Shao Ch'in, Li Hsien Lin
DATE: 02/11/82 Report #: FTD-ID(RS)T-1210-81
Corp.Author: Foreign Technology Div., Air Force Systems Command
Index Terms: Ballistic Missile Defense Weapon Interception Advance
Warning System Guidance Foreign Technology
Pgs: 116 Classification: U Security Marks:

Accession #:U00266 AD #: ADA138587
TITLE: Integrated Testing and Maintenance Technologies
AUTHOR: Denney, R.O.; Partridge, M.J.; Williams, R.B.
DATE: 12/01/83 Report #: AFWAL-TR-83-1183
Corp.Author: Boeing Aerospace Co., P.O. Box 3999, Seattle WA
Index Terms: Artificial Intelligence Avionic Testing Fault
Detection Isolation Maintenance System Integrated
Pgs: 320 Classification: U Security Marks:

Accession #:U00267 AD #: ADA101538
TITLE: Hypersonic Vehicle Trajectory Optimization
AUTHOR: Hull, D.G.; Speyer, J.L.
DATE: 05/01/81 Report #: AFWAL-TR-81-3034
Corp.Author: Univ. of Texas, Dept. of Aerospace Eng. Mechanics,
Austin TX 78712
Index Terms: Hypersonic Vehicle Trajectory Reentry Orbital Maximum
Crossrange Computer Code
Pgs: 113 Classification: U Security Marks:

Accession #:U00268 AD #: ADA094465
TITLE: Estimation and Statistical Averaging Applied to Redundant
Strapped Down Inertial Sensors for Navigation and Flight
AUTHOR: Bell, J.W.
DATE: 09/01/80 Report #: AFWAL-TR-80-1088
Corp.Author: A.F. Wright Aeronautical Lab., Avionics Lab., Wright
Patterson AFB, OH 45433
Index Terms: Inertial Sensor Navigation Failure Detection
Isolation Avionic Redundant System
Pgs: 144 Classification: U Security Marks:

Accession #:U00269 AD #: ADA076769
TITLE: Millimeter Wave Hardened Antenna Window Materials
Development
AUTHOR: Brazel, J.P.; Fenton, R.; Roetling, J.; Tanzilli, R.
DATE: 08/01/79 Report #: AMMRC-TR79-45
Corp.Author: Gen. Elect. Co., Re-Ent. & Enviro. Sys. Div., 3198
Chestnut St., Phil. PA 19101
Index Terms: Antenna Window Silicon Aluminum Nitride Hardened
Radar Material Millimeter Wave Application BMD
Pgs: 254 Classification: U Security Marks:

Accession #:U00270 AD #: ADA142140
TITLE: Distributed Avionic Computers
AUTHOR: Levitt, K.N.; Melliar-Smith, P.M.; Schwartz, R.L.
DATE: 09/01/83 Report #: SRI-4133
Corp.Author: SRI International, 333 Ravenswood Ave., Menlo Park, CA
94025
Index Terms: Avionic Computer Transient Fault Error Generation
Detection Fault-Tolerant System Ada Machine NASA
Pgs: 83 Classification: U Security Marks:

Accession #:U00271 AD #: ADA131003
TITLE: Discourse and Problem Solving
AUTHOR: Litman, Diane
DATE: 07/01/86 Report #: BBN-5338
Corp.Author: Bolt Beranek and Newman Inc., 10 Moulton St., Cambridge,
MA 02238
Index Terms: ARGOT Artificial Intelligence Discourse Planning
Communicative Goal Recognition Tractable
Pgs: 48 Classification: U Security Marks:

Accession #:U00272 AD #: ADA112988
TITLE: GLR Algorithms for Detecting and Estimating Abrupt
Maneuvers in ASMD Scenarios Using a Decomposition of the
AUTHOR: Stalford, H.L.
DATE: 07/01/81 Report #: PSI-81-1
Corp.Author: Practical Sciences Inc., 40 Long Ridge RD., Carlisle, MA
01741
Index Terms: GLR Algorithm Detection Estimate Abrupt Maneuver
Signature Matrix Linear Stochastic System Ship
Pgs: 94 Classification: U Security Marks:

Accession #:U00273 AD #: ADA117711
TITLE: Program to Study the Detection of Target Hits by Directed
Energy Weapons
AUTHOR: Silk, J.K.
DATE: 03/01/82 Report #: AFOSR-TR-82-0571
Corp.Author: American Sciences and Engineering Inc., 37 Broadway,
Arlington, MA 02174
Index Terms: X-Ray Absortion Production Emission Directed Energy
Weapon Hit Detection Particle Beam
Pgs: 43 Classification: U Security Marks:

Accession #:U00274 AD #: ADA120046
TITLE: Two-Dimensional Model for Arc Dynamics in the Rail Gun
AUTHOR: Powell, J.D.
DATE: 09/01/82 Report #: ARBRL-TR-02423
Corp.Author: US Army Ballistic Research Lab., ATTN: DRDAR-BLB,
Aberdeen Proving Grd., MD
Index Terms: Rail Electric Gun Electromagnetic Propulsion Plasma
Arc Dynamic
Pgs: 49 Classification: U Security Marks:

Accession #:U00275 AD #: ADA121445
TITLE: KBS: An Expert Planning System for Crisis Response
AUTHOR: Benoit, J.W.; Lemmon, A.V.; Selander, J.M.
DATE: 08/01/82 Report #: RADC-TR-82-217
Corp.Author: MITRE Corp.- Wash. C3I Operations, 1820 Dolly Madison
Blvd., McLean, VA 22102
Index Terms: Artificial Intelligence Command Control Knowledge
Rule Based System
Pgs: 74 Classification: U Security Marks:

Accession #:U00285 AD #:
TITLE: Interceptor Nose Cavity Flowfield Analysis
AUTHOR: Rawlinson, E.G.
DATE: 12/13/85 Report #: BDM-S590-0321B15
Corp.Author: Continuum, Inc., 4715 University Dr., Suite 118,
Huntsville, AL 35816-3495
Index Terms: VAST Computer Code Interceptor Flowfield Nose Cavity
Angle-of-Attack
Pgs: 6 Classification: U Security Marks:

Accession #:U00286 AD #: ADA160356
TITLE: National Security Issues Symposium 1984: Space, National
Security and C3I
AUTHOR: Everett, R.R.; Chubb, M.F.; Abrahamson, J.A. Et
Al.....

DATE: 10/26/85 Report #: MB5-3
Corp.Author: MITRE Corp., Bedford, MA

Index Terms: Space Use US USSR Program USAF USN USA Challenge
Station Security Defense Arm Control Verify
Pgs: 127 Classification: U Security Marks:

Accession #:U00287 AD #: ADA114043
TITLE: Analysis of a Rail Gun Plasma Accelerator
AUTHOR: Batteh, J.H.
DATE: 04/01/82 Report #: ARBRL-CR-00478
Corp.Author: Science Applications Inc., 6600 Powers Ferry Rd., Suite
220, Atlanta, GA 30339
Index Terms: Electric Rail Gun Plasma Accelerator Electromagnetic
Propulsion Dynamic Fluid Mechanic Arc-Driven
Pgs: 53 Classification: U Security Marks:

Accession #:U00288 AD #: ADA129375
TITLE: Ultra-High Modulus Graphite/Epoxy Conical Shell Development
AUTHOR: Hertz, J.
DATE: 08/01/78 Report #: AMMRC-TR-78-38
Corp.Author: General Dynamics, Convair Division, P.O. Box 80847, San
Diego, CA 92138
Index Terms: Composite Material Structure Fiber Graphite/Epoxy
Missile Conical Section Fabricate Test Analysis
Pgs: 111 Classification: U Security Marks:

Accession #:U00289 AD #: ADA124088
TITLE: Understanding and Representing Natural Language Meaning
AUTHOR: Waltz, D.L.; Maran, L.R.; Dorfman, M.H.; Farwell, D.
DATE: 12/01/82 Report #: T-119
Corp.Author: Coordinated Science Lab., Univ. of Illiniose, Urbana, IL
61801
Index Terms: Artificial Intelligence Natural Language Processing
Cognitive Modeling Knowledge Representation Computer
Pgs: 44 Classification: U Security Marks:

Accession #:U00290 AD #: ADA124191
TITLE: Power Conditioning Subsystem Design
AUTHOR: Moriarty, J.J.; Casazza, S.; Corbiere, P.A.
DATE: 11/01/82 Report #: AFWAL-TR-82-2108
Corp.Author: Raytheon Co., Missile Sys. Div., Bedford Laboratories,
Bedford, MA 01730
Index Terms: Power Conditioning Pulsed Rectifier Inverter Pulse
Forming Network Subsystem Exploratory Development
Pgs: 32 Classification: U Security Marks:

Accession #:U00291 AD #: ADA066121
TITLE: Muzzle-Blast-Induced Trajectory Perturbation of Nonconical
and Conical Boattail Projectiles
AUTHOR: Fansler, K.S.; Schmidt, E.M.
DATE: 01/01/79 Report #: ARBRL-MR-02891
Corp.Author: US Army Ballistic Research Laboratory, Aberdeen Proving
Ground, MD 21005
Index Terms: Spin-Stabilized Projectile Transitional Free-Flight
Ballistic Accuracy Conical Nonconical Boattail
Pgs: 29 Classification: U Security Marks:

Accession #:U00292 AD #: ADA140294
TITLE: Observation of Rayleigh-Taylor-Like Structures in a
Laser-Accelerated Foil
AUTHOR: Whitlock, R.R.; Emery, M.H.; Stamper, J.A.; McLean, E.A.
DATE: 03/19/84 Report #: NRL-MR-5204
Corp.Author: Naval Research Laboratory, Washington D.C., 20375
Index Terms: Laser-Produced Plasma Rayleigh-Taylor Flash X-Ray
Backlighting Hydrodynamic Instability Accelerated
Pgs: 9 Classification: U Security Marks:

Accession #:U00293 AD #: ADA140369
TITLE: Preliminary Investigation on the Application of Robotics to
Missile Fire Control
AUTHOR: McIngvale, P.H.; Sherrill, A.D.; Herring, J.W.
DATE: 11/01/83 Report #: RG-84-B
Corp.Author: Commander, US Army Missile Command, Redstone Arsenal, AL
35898
Index Terms: Investigation Automation Artificial Intelligence
Robot Missile Firing Control Application HELLFIRE
Pgs: 28 Classification: U Security Marks:

Accession #:U00294 AD #: ADA112003
TITLE: Brush/Slip Ring Selection for High Power Satellite Loads
AUTHOR: Heier, D.K.
DATE: 12/11/78 Report #: D-180-24843-1
Corp.Author: The Boeing Co.
Index Terms: Angular Velocity Brush Pressure Type Current Density
Dry Lubricant Slip Ring Vacuum Level Voltage Drop
Pgs: 54 Classification: U Security Marks:

Accession #:U00295 AD #: ADA134114
TITLE: Applications to Josephson Junction Squids and Arrays
AUTHOR: Silver, A.H.
DATE: 03/31/83 Report #: N00014-81-C-0615
Corp.Author: TRW Space and Tech. Grp, Appl. Tech. Div., 1 Space Park,
Redondo Beach, CA 90278
Index Terms: Josephson Junction Squid Array Application
Voltage-Controlled-Oscillator
Pgs: 17 Classification: U Security Marks:

Accession #:U00296 AD #: ADA122071
TITLE: S-I-S mm-Wave Mixers and Detectors
AUTHOR: Jillie, D.W.; Kroger, H.; Smith, L.N.
DATE: 09/10/82 Report #: SRC-CR-82-43
Corp.Author: Sperry Research Center, 100 North Rd., Sudbury, MA 01776

Index Terms: S-I-S Device Fabrication mm-Wave Detector
Superconductivity Josephson Niobium Nitride

Pgs: 58 Classification: U Security Marks:

Accession #:U00297 AD #: ADA014151
TITLE: Design Technique for Improved Bandwidth Moving Target
Indicator Processing in Surface Radars
AUTHOR: Burlage, D.W.; Houts, R.C.
DATE: 06/11/75 Report #: RE-75-35
Corp.Author: Commander US Army Missile Command, Redstone Arsenal, AL 35809

Index Terms: Moving Target Indicator Finite-Impulse Response
Filter Chebyshev Design Improvement Factor Digital

Pgs: 70 Classification: U Security Marks:

Accession #:U00298 AD #: ADA096538
TITLE: Assessment of the Crossed Porro Prism Resonator
AUTHOR: See, B.A.; Fueloep, K.; Seymour, R.
DATE: 08/01/80 Report #: ERL-0162-TM
Corp.Author: Defense Research Center, Electronics Research Lab.,
Salisbury, South Australia

Index Terms: Laser Range Finder Mechanical Property Stability
Resonator Porro Prism Standard Mirror Examine

Pgs: 16 Classification: U Security Marks:

Accession #:U00299 AD #: ADA105488
TITLE: Goals for Air Force Autonomous Spacecraft
AUTHOR: Marshall, M.H.
DATE: 03/31/81 Report #: SD-TR-81-72
Corp.Author: Jet Propulsion Laboratory, 4800 Oak Grove Dr.,
Pasadena, CA 91109

Index Terms: Autonomous Spacecraft Maintenance Navigation Fault
Tolerance Resource Management Health Survivability

Pgs: 19 Classification: U Security Marks:

Accession #:U00301 AD #: ADA098963
TITLE: Laser Designator
AUTHOR: Ching, L-C
DATE: 04/10/81 Report #: FTD-ID-(RS)T-0002-B1
Corp.Author: Air Force Systems Command, Foreign Technology Division

Index Terms: Laser Designator Target Identification Tracking
Aircraft Ground Application

Pgs: 5 Classification: U Security Marks:

Accession #:U00302 AD #: ADA095667
TITLE: Characteristics of Ablation Plasma from Planar,
Laser-Driven Targets
AUTHOR: Grun, J.; Decoste, R.; Ripin, B.H.; Gardner, J.
DATE: 03/01/81 Report #: NLR-MR-4410
Corp.Author: Naval Research Laboratory, Washington D.C., 20375

Index Terms: Ablation Parameter Pressure Mass Rate Spot-Size
Effect Laser-Plasma Interaction Velocity Ballistic
Pgs: 16 Classification: U Security Marks:

Accession #:U00303 AD #: ADA094263
TITLE: Monolithic GaAs Superheterodyne Front End
AUTHOR: Gupta, A.K.; Peterson, W.; Ch'en, D.R.
DATE: 05/01/80 Report #: ERC-41014-1PR
Corp.Author: Rockwell Interntl, Elect. Res. Ctr, 1049 Camino Dos
Rios, Thousand Oaks, CA 9136
Index Terms: Monolithic Microwave Integrated Circuit Gallium
Arsenide Receiver Front End Field Effect Transistor
Pgs: 36 Classification: U Security Marks:

Accession #:U00304 AD #: ADA090435
TITLE: New Technique for Doppler Frequency Analysis of Radar
Signals
AUTHOR: Rittenbach, D.E.
DATE: 06/01/80 Report #:
Corp.Author: US Army Combat Surveillance & Target Acquisition Lab.,
Fort Monmouth, NJ 07703
Index Terms: Doppler Frequency Analysis Radar Signal Target
Spectrum
Pgs: 13 Classification: U Security Marks:

Accession #:U00305 AD #: ADA129340
TITLE: Areas of the Rational Use of Different Spacecraft Power
Systems
AUTHOR: Kuladin, A.A.; Timashev, S.V.; Ivanov, V.P.
DATE: 03/31/83 Report #: FTD-ID(RS)T-0307-83
Corp.Author: Air Force Systems Command, Foreign Technology Division
Index Terms: Rational Use Spacecraft System Energy Chemical
Battery Solar Thermal Powerplant Electromagnetic
Pgs: 3 Classification: U Security Marks:

Accession #:U00306 AD #: ADA128238
TITLE: Space Energetics
AUTHOR: Yefusiji, Afudu
DATE: 04/07/83 Report #: FTD-ID(RS)T-0206-83
Corp.Author: Air Force Systems Command, Foreign Technology Division
Index Terms: Space Energetic Rocket Space Manufacture
Pgs: 8 Classification: U Security Marks:

Accession #:U00307 AD #: ADA116397
TITLE: Laser Ultrasound for Nondestructive Testing
AUTHOR: Scott, W.R.
DATE: 03/12/82 Report #: NADC-81213-60
Corp.Author: Naval Air Dev. Ctr., Aircraft & Crew Sys. Tech. Direct.,
Warminster, PA 18974
Index Terms: Laser Nondestructive Test Ultrasonic Pulsed
Thermoelastic Wave Interferometry Exploration
Pgs: 16 Classification: U Security Marks:

Accession #:U00308 AD #: ADA115367
TITLE: Optical Excisor Field Tests
AUTHOR: Jackson, D.
DATE: 02/01/82 Report #: PSI-ER-5538-04
Corp.Author: Probe Systems Inc., 655 North Pastoria Ave., Sunnyvale,
CA
Index Terms: Test Description Chip Detector Optical Excisor Data
Switched Radiometer
Pgs: 48 Classification: U Security Marks:

Accession #:U00309 AD #: ADA119243
TITLE: Research Needs: Prime-Power for High Energy Space Systems
AUTHOR: Turchi, P.J.
DATE: 06/01/82 Report #: AFOSR-TR-82-0717
Corp.Author: R & D Associates, 1401 Wilson Blvd., Arlington, VA 22209
Index Terms: Prime Power Energy System Spacecraft Research
Initiative
Pgs: 97 Classification: U Security Marks:

Accession #:U00310 AD #: ADA091006
TITLE: Pulsed Plasma Propulsion System/Spacecraft Design Guide
AUTHOR: Huberman, M.N.; Zafran, S.
DATE: 09/01/80 Report #: AFRPL-TR-80-38
Corp.Author: TRW Defense and Space Systems Group, One Space Park,
Redondo Beach, CA 90278
Index Terms: Electric Auxiliary Pulsed Plasma Satellite Propulsion
Spacecraft Describe
Pgs: 95 Classification: U Security Marks:

Accession #:U00311 AD #: ADA140024
TITLE: Probe for Measuring Spacecraft Surface Potentials Using a
Direct-Gate Field Effect Transistor
AUTHOR: Horenstien, M.N.; Mavretic, A.
DATE: 09/30/83 Report #: AFGL-TR-83-0255
Corp.Author: Trustees of Boston Univ., 881 Commonwealth Ave., Boston,
MA 02215
Index Terms: Direct-Gate Field Effect Transistor Sensor
Electrostatic MOSFET Surface Potential Development
Pgs: 185 Classification: U Security Marks:

Accession #:U00312 AD #: ADA090514
TITLE: Mission Integration Study of Solid Teflon Pulsed Plasma
Millipound Propulsion System
AUTHOR: Huberman, M.N.; Zafran, S.; Gran, H.; Pieper, R.; Sellen,
J.
DATE: 09/01/80 Report #: AFRPL-TR-80-37
Corp.Author: TRW Defense & Space Systems Group, One Space Park,
Redondo Beach, CA 90278
Index Terms: Electric Auxiliary Satellite Pulsed Plasma Solid
Teflon Millipound Integration Identify Validate
Pgs: 181 Classification: U Security Marks:

Accession #:U00313 AD #: ADA102334
TITLE: Monolithic Lumped Element Integrated Circuit (M2LEIC)
Transistors
AUTHOR: Harrington, A.; Schreyer, G.
DATE: 12/01/80 Report #: N00173-77-C-0340
Corp.Author: TRW Inc., Semiconductor Div., Lawndale, CA 90260
Index Terms: V-Groove Dielectric Isolation Polysilicon Monolithic
Lumped Element M2LEIC Integrated Circuit
Pgs: 106 Classification: U Security Marks:

Accession #:U00314 AD #: ADA096863
TITLE: Techniques for Microwave Imaging
AUTHOR: Mensa, D.L.
DATE: 01/18/81 Report #: PMTC-TP-81-08
Corp.Author: Pacific Missile Test Center, Point Mugu, CA 93042
Index Terms: Radar Microwave Range Crossrange Imaging High
Resolution Target Reflectivity Focused Aperture
Pgs: 166 Classification: U Security Marks:

Accession #:U00315 AD #: ADA061744
TITLE: Spacewound Composite Structures
AUTHOR: Abildskov, D.; Yao, S.
DATE: 01/01/78 Report #:
Corp.Author: Fiber Science Inc., 245 East 157TH St., Gardena, CA
90248
Index Terms: Spacewound Composite Structure Fiberglass Graphite
Ballistic Tolerance Survivability Tailboom Investigate
Pgs: 71 Classification: U Security Marks:

Accession #:U00316 AD #: ADA146491
TITLE: Autothermal Reformer Fuel Cell Power Plants
AUTHOR: Bloomfield, D.P.
DATE: 02/28/84 Report #: PSI-TR-416
Corp.Author: Physical Sciences Inc., Research Park, P.O. Box 3100,
Andover, MA 01810
Index Terms: Acid Fuel Cell Power Plant Autothermal Reformer
Summary Hydrocarbon System Analysis
Pgs: 153 Classification: U Security Marks:

Accession #:U00317 AD #: ADA098795
TITLE: FET Noise Studies
AUTHOR: Pucel, R.A.
DATE: 03/01/81 Report #: AFOSR-TR-81-043B
Corp.Author: Raytheon Research Division, 28 Seyon St., Waltham, MA
02254
Index Terms: Gallium Arsenide Field Effect Transistor FET Noise
Oscillator Microwave Cavity Stabilization VCO
Pgs: 153 Classification: U Security Marks:

Accession #:U00318 AD #: ADA127710
TITLE: Intelligent Interpretation of 3-D Imagery
AUTHOR: Kuan, D.; Drazovich, R.
DATE: 02/01/83 Report #: AFOSR-TR-83-0331
Corp.Author: Advanced Info. Decision Sys., 201 San Antonio Cir.,
Mountain View, CA 94040
Index Terms: Model-Based Interpretation Computer Vision Artificial
Intelligence Target Classification Range Imagery
Pgs: 87 Classification: U Security Marks:

Accession #:U00319 AD #: ADA070675
TITLE: Wide Bandwidth Liquid Crystal Light Valve
AUTHOR: Braatz, P.; Little, M.; Efron, V.; Grinberg, J.
DATE: 05/01/79 Report #:
Corp.Author: Hughes Research Laboratories, 3011 Malibu Canyon Rd.,
Malibu, CA 90265
Index Terms: Light Valve Liquid Crystal Charge Coupled Device
Optical Processing Image Converter Wide Bandwidth
Pgs: 99 Classification: U Security Marks:

Accession #:U00320 AD #: ADA088195
TITLE: Information Analysis of Dynamical Radar Parameters
AUTHOR: Poor, H.V.
DATE: 04/01/80 Report #: TR-RE-CR-80-12
Corp.Author: M&S Computing Inc., P.O. Box 5183, Huntsville, AL 35805
Index Terms: Millimeter Wave Radar/Sensor Signal Modeling Target
Recognition System Dynamical Analysis Parameter
Pgs: 20 Classification: U Security Marks:

Accession #:U00321 AD #: ADA130631
TITLE: Forward Multiple Scattering Corrections as Function of
Detector Field of View
AUTHOR: Zardeki, Andrew; Deepak, Adarsh
DATE: 06/01/86 Report #: ARCSL-CR-83039
Corp.Author: Institute of Atmospheric Optics and Remote Sensing,
P.O.Box P, Hampton, VA 23666
Index Terms: Forward Multiple Scattering Effect Aerosol Particle
Detector Field View Optical Extinction Measurement
Pgs: 40 Classification: U Security Marks:

Accession #:U00322 AD #: ADA129142
TITLE: High Voltage Design Guide: Spacecraft
AUTHOR: Dunbar, W.G.
DATE: 01/01/83 Report #: AFWAL-TR-82-2057 Vol V
Corp.Author: Boeing Aerospace Co., P.O.Box 3999, Seattle, WA 98124

Index Terms: Capacitor Corona Creepage Debris Dielectric
Withstanding Voltage Spacecraft Material Multipactor
Pgs: 131 Classification: U Security Marks:

Accession #:U00323 AD #: ADA121484
TITLE: Space Robotics
AUTHOR: Korf, R.E.
DATE: 08/01/82 Report #: CMU-RI-TR-82-10
Corp.Author: Carnegie-Mellon Univ., Robotics Inst., Pittsburgh, PA 22217
Index Terms: Space Robotics Survey Application
Pgs: 56 Classification: U Security Marks:

Accession #:U00324 AD #: ADA123777
TITLE: Flow Control About an Airborne Laser Turret
AUTHOR: Penix, L.E.
DATE: 06/01/82 Report #: NPS-67-82-007
Corp.Author: Naval Postgraduate School, Monterey, CA 93940
Index Terms: Airflow Control Laser Turret Small Firing Propagation
Pgs: 58 Classification: U Security Marks:

Accession #:U00325 AD #: ADA114927
TITLE: Optimal Control of the HEL Beam
AUTHOR: Steelman, J.E.
DATE: 02/01/82 Report #: AFDSR-TR-82-0387
Corp.Author: New Mexico St. Univ., Electrical & Computer Eng., Las Cruces, N.M. 88003
Index Terms: High Energy Laser Atmospheric Turbulence Effect
Optimal Control
Pgs: 20 Classification: U Security Marks:

Accession #:U00326 AD #: ADA091587
TITLE: Monte Carlo Model for Determining Copperhead Probability of
Acquisition and Maneuver
AUTHOR: Starks, M.
DATE: 08/01/80 Report #: 308
Corp.Author: US Army Material Systems Analysis Activity, Aberdeen Proving Gd, MD 21005
Index Terms: COPPERHEAD Precision Guided Munition Laser Weapon
Artillery Effectiveness COPE PAM Probability
Pgs: 45 Classification: U Security Marks:

Accession #:U00327 AD #: ADA085122
TITLE: Propagation of Focussed Truncated Laser Beams in the
Atmosphere
AUTHOR: Purcell, A.G.
DATE: 06/01/79 Report #: RAE-TM-7903
Corp.Author: Royal Aircraft Establishment, Farnborough, Hants, UK

Index Terms: Laser Turbulence Adaptive Optic Focuss Propagate
Pgs: 29 Classification: U Security Marks:

Accession #:U00328 AD #: ADA144538
TITLE: Short-Pulsed Laser and Plasma Surface Interactions
AUTHOR: Schwirzke, F
DATE: 04/01/84 Report #: NPS-61-84-004
Corp.Author: Naval Postgraduate School, Monterey, CA 93943

Index Terms: Short-Pulse Laser Damage Mechanism Unipolar Arcing
Model
Pgs: 16 Classification: U Security Marks:

Accession #:U00329 AD #: ADA031718
TITLE: Reflective-Array Matched Filter for a 16-Pulse Radar Burst
AUTHOR: Williamson, R.C.; Melngailis, J.; Dolat, V.S.
DATE: 09/22/75 Report #: ESD-TR-76-266
Corp.Author: Lincoln Laboratory, MIT, P.O. Box 73, Lexington, MA
02173
Index Terms: Reflective-Array Burst Matched Filter 16-Pulse Radar
Design Fabricate Doppler
Pgs: 5 Classification: U Security Marks:

Accession #:U00330 AD #: ADA096115
TITLE: Ablated Plasma Flow from Planar Targets
AUTHOR: Herbst, M.J.; Grun, J.
DATE: 03/13/86 Report #: NRL-MR-4436
Corp.Author: Naval Research Lab., Washington D.C. 20375

Index Terms: Fluid Flow Laser Ablation Planar Target DEW
Pgs: 13 Classification: U Security Marks:

Accession #:U00331 AD #: ADA100110
TITLE: Flow Control About an Airborne Laser Turret
AUTHOR: Schonberger, J.R.
DATE: 12/01/80 Report #: NPS-67-80-018
Corp.Author: Naval Postgraduate School, Monterey, CA 93940

Index Terms: Airflow Control Laser Propagation Jitter Turret High
Thermal Energy
Pgs: 63 Classification: U Security Marks:

Accession #:U00332 AD #: ADA097423
TITLE: Time Domain Simulation of a Beam Control System
AUTHOR: Mitchell, J.R.
DATE: 02/01/81 Report #: AFOSR-TR-81-0323
Corp.Author: Mississippi St. Univ., Drawer E, MS 39762
Index Terms: Time Domain Simulation Beam Control System MIMIC
Develope Investigate
Pgs: 44 Classification: U Security Marks:

Accession #:U00333 AD #: ADA047395
TITLE: UHF Propagation Effects in Scintillated Environments
AUTHOR: Wittwer, L.A.; Salvi, T.; Pettus, E.
DATE: 08/01/77 Report #: AFWL-TR-76-304
Corp.Author: Air Force Weapons Laboratory (DYM), Kirtland AFB, MN 87117
Index Terms: Ionospheric Radio UHF Propagation Striation
Scintillation
Pgs: 74 Classification: U Security Marks:

Accession #:U00334 AD #: ADA083975
TITLE: Absorbtion of Submillimeter Radiation by Battlefield Gases
AUTHOR: Leslie, D.H.; Manning, J.L.
DATE: 01/01/80 Report #: ASL-CR-80-5343-1
Corp.Author: Science Applications Inc., 15 Research Dr., Ann Arbor, MI 48103
Index Terms: Battlefield Gases Propagation Submillimeter Laser
Asorbtion
Pgs: 27 Classification: U Security Marks:

Accession #:U00335 AD #: ADA093174
TITLE: Model of Interceptor Engagements Including Warhead and Fuze Interactions
AUTHOR: Weiner, S.D.
DATE: 09/18/80 Report #: ESD-TR-80-186
Corp.Author: Lincoln Laboratory, MIT, P.O. Box 73, Lexington, MA 02173
Index Terms: Non-Nuclear Intrception Homing Sensor Warhead
Engagement Fuzing BMD Interaction Model
Pgs: 46 Classification: U Security Marks:

Accession #:U00336 AD #: ADA049726
TITLE: Maximizing the Usable Bandwidth of MTI Signal Processors
AUTHOR: Houts, R.C.; Burlage, D.W.
DATE: 01/01/77 Report #: ARO-13720.1-ELX
Corp.Author: Univ. of Alabama, Dept. of Electrical Engineering, Tuscaloosa, AL 35486
Index Terms: Moving Target Indicator Doppler Effect Bandwidth
Radar Clutter Suppression Signal Process
Pgs: 8 Classification: U Security Marks:

Accession #:U00337 AD #: ADA047901
TITLE: Jason Laser Propulsion Study, Summer 1977
AUTHOR: Dyson, F.J.; Perkins, F.W., Jr.
DATE: 12/01/77 Report #: JSR-77-12
Corp.Author: SRI, International, 1611 N. Kent St., Arlington, VA 22209
Index Terms: Laser Propulsion Jason Space Vehicle Study Launch
Pgs: 26 Classification: U Security Marks:

Accession #:U00338 AD #: ADA07B631
TITLE: Bonded Grid Development
AUTHOR: Dawson, Richard
DATE: 10/01/79 Report #: RADC-TR-79-249
Corp.Author: Hughes Aircraft Co., Electron Dynamics Div., 3100 W. Lomita Blvd., Torrance, CA
Index Terms: Bonded Grid Hafnium Oxide Microwave Electron Gun
Thermionic Tube Control Development
Pgs: 85 Classification: U Security Marks:

Accession #:U00339 AD #: ADA126257
TITLE: FET Power Amplifier for Quiet Radar Transmitter
AUTHOR: Klatskin, J.B.; Camisa, R.L.; Mikelson, A.; Cvecich, W.J.
DATE: 01/01/80 Report #: PRRL-80-CR-7
Corp.Author: RCA Laboratories, Princeton, NJ 08540
Index Terms: GaAs FET Power Amplifier Module Quiet Radar Transmitter
Pgs: 33 Classification: U Security Marks:

Accession #:U00340 AD #: ADA116662
TITLE: Investigation on the Absorbance of Stainless Steel Targets Irradiated by a TEA-CO2 Laser
AUTHOR: Morency, J.P.
DATE: 05/01/82 Report #: 4232/82
Corp.Author: Defense Research Establishment, Valcartier, Quebec, Canada
Index Terms: Stainless Steel Target Absorbance TEA-CO2 Laser Investigation Irradiat
Pgs: 20 Classification: U Security Marks:

Accession #:U00341 AD #: ADA132474
TITLE: Computer-Aided Synthesis and Design of Monolithic Microwave GaAs MESFET Amplifiers
AUTHOR: Dijak, J.T.
DATE: 08/01/83 Report #: AFIT/CI/NR-83-19D
Corp.Author: Cornell University
Index Terms: Computer-Aided Synthesis Monolithic Microwave GaAs MESFET Amplifier Design Technique Analytical
Pgs: 167 Classification: U Security Marks:

Accession #:U00342 AD #:
TITLE: Canada and the Strategic Defense Initiative: An Examination
of Canadian Policy Options
AUTHOR: Macintosh, James
DATE: 12/01/85 Report #: Occasional Paper No. 4
Corp.Author: York University, Research Program in Strategic Studies

Index Terms: SDI BMD Policy Option Canadian Examine
Pgs: 29 Classification: U Security Marks:

Accession #:U00343 AD #:
TITLE: Norad Sovereignty and Changing Technology
AUTHOR: Shadwick, Martin
DATE: Report #: Occasional Paper No. 3
Corp.Author: York University, Research in Strategic Studies

Index Terms: SDI NORAD DEW BMD
Pgs: 13 Classification: U Security Marks:

Accession #:U00344 AD #:
TITLE: Military Technology Magazine: The Military Balance 1985/86,
Special Edition
AUTHOR:
DATE: 12/01/85 Report #: ISSN 0722-3226
Corp.Author: Monch Publishing Group

Index Terms: Military Balance 1985/86 US USSR Warsaw Pact North
Atlantic Treaty Organization China Latin America
Pgs: 360 Classification: U Security Marks:

Accession #:U00345 AD #:
TITLE: VLSI Radiation Hardness Component Technology
AUTHOR: Antcliffe, G.A.
DATE: 01/23/86 Report #: DASG60-85-C-0116
Corp.Author: Hughes Aircraft Co., Semiconductor Div., 6155 El Camino
Real, Carlsbad, CA 92008
Index Terms: VLSI Radiation Hardness Component Technology Status
Process
Pgs: 20 Classification: U Security Marks:

Accession #:U00346 AD #:
TITLE: Probabilistic Analysis of Nonlinear Structures Subject to
Transient Loads
AUTHOR: Morrison, Dennis
DATE: 10/01/85 Report #: NMERI-TAB-81
Corp.Author: Univ of New Mexico, Engineering Res. Inst., Box 25,
Albuquerque, NM 87131
Index Terms: Probability Blast Shock Stochastic Process First
Passage Nonlinear Analysis
Pgs: 120 Classification: U Security Marks:

Accession #:U00347 AD #:
TITLE: Feasibility of Time Domain Wave Form Sensors for the
Measurement of Dust Induced Electromagnetic Noise
AUTHOR: Garrity, J.J.; Formato, R.A.
DATE: 01/23/85 Report #: SAIC-85/1022
Corp.Author: Science Applications International Corp., P.O.Box 371,
Stow, MA 01775-0371
Index Terms: Time Domain Waveform Sensor Electromagnetic Noise
Measurement Wide-Band Antenna Dust-Induced
Pgs: 24 Classification: U Security Marks:

Accession #:U00348 AD #:
TITLE: Naval Space Surveillance Modernized Receiver System, Vol.
VI - Data Communication Subsystem
AUTHOR: Weaver, C.H.
DATE: 08/14/85 Report #: NRL Report 8910
Corp.Author: Naval Research Lab., Washington, D.C. 20375-5000
Index Terms: Data Communication Interface NAVCOM Buffer Test
Control Field Transmission Protocol Medium Rate Noise
Pgs: 18 Classification: U Security Marks:

Accession #:U00349 AD #:
TITLE: Demonstration of Surveillance-Radar Communication
AUTHOR: Coleman, J.O.; Alter, J.J.
DATE: 10/04/85 Report #: NRL Report 8925
Corp.Author: Naval Research Lab., Washington, D.C. 20375-5000
Index Terms: Computer Communication Network Tactical Data Transfer
Surveillance-Radar Demonstration
Pgs: 17 Classification: U Security Marks:

Accession #:U00353 AD #:
TITLE: Transactions of the Symposia on Space Nuclear Power
Systems: Third Symposium
AUTHOR: Edited By: El-Genk, M.S.; Hoover, M.D.
DATE: 01/16/86 Report #: CONF-860102
Corp.Author: INSPI, Univ. of New Mexico, Albuquerque, NM
Index Terms: Space Nuclear Power System Mission Application
Radiation Effect Thermal Management Integration
Pgs: 260 Classification: U Security Marks:

Accession #:U00354 AD #:
TITLE: Advanced Space Transportation Systems
AUTHOR: Disher, J.H.; Hethcoat, J.P.; Page, M.A.
DATE: Report #: AB1-44644
Corp.Author: American Inst. of Aeronautics and Astronautics, 555 W.
57th St., N.Y., NY 10019
Index Terms: Space Transportation System Shuttle SSUS/IUS
Evolution Development Future Prosp t
Pgs: 23 Classification: U Security Marks:

Accession #:U00356 AD #:
TITLE: Performance of Probe-Fed Microstrip Patch-Element Phased
Arrays-Part I
AUTHOR: Liu, C.C.; Hessel, A.; Shmoys, J.
DATE: 09/30/85 Report #: POLY-MRI-1447-85
Corp.Author: Polytechnic Inst. of New York, Microwave Res. Inst., Rte
110, Farmingdale, NY
Index Terms: Microstrip-Patch Phased Array E-Plane Scan-Bandwidth
Trade-Off Surface Leaky Wave Type Blind Spot TE Large
Pgs: 46 Classification: U Security Marks:

Accession #:U00357 AD #:
TITLE: DOT Technical Support Final Technical Report
AUTHOR: Ormond, R.
DATE: 09/27/85 Report #: NRC-TR-86-003
Corp.Author: Nichols Research Corp., 4040 S. Memorial Parkway,
Huntsville, AL 35802-1326
Index Terms: Designating Optical Tracker DOT Technical Support
Final Report DTS Kwajalein Missile Range
Pgs: 279 Classification: U Security Marks:

Accession #:U00358 AD #:
TITLE: Briefing on a Proposed System Approach to Very Large
Optical Systems Two-Stage Optics
AUTHOR: Meinel, A.B.; Meinel, M.P.
DATE: 11/28/84 Report #:
Corp.Author: Jet Propulsion Laboratory, Pasadena, CA
Index Terms: Very Large Optic Two-Stage Limitation Field Scanning
Capability Error Sensing Wrap-Rib Structure
Pgs: 50 Classification: U Security Marks:

Accession #:U00359 AD #:
TITLE: Spacecraft Computers: State-of-the-Art Survey
AUTHOR: Theis, D.J.
DATE: 04/01/83 Report #:
Corp.Author: Aerospace Corp.
Index Terms: Spacecraft Computer Survey Characteristic Application
Comparison
Pgs: 13 Classification: U Security Marks:

Accession #:U00360 AD #:
TITLE: Multiple Aperture Telescope Diffraction Images
AUTHOR: Meinel, A.B.; Meinel, M.P.; Woolf, N.J.
DATE: 01/01/83 Report #: ISBN 0-12-408609-8
Corp.Author: Optical Sciences Center and Steward Observatory, Tucson,
Arizona
Index Terms: Multiple-Aperture Telescope Diffraction Pattern Array
Linear-Based Four-Square Eight-Element Triangular
Pgs: 201 Classification: U Security Marks:

Accession #:U00361 AD #:
TITLE: Alternate Propulsion Energy Sources
AUTHOR: Forward, R.L.
DATE: 12/01/83 Report #: AFRPL TR-83-067
Corp.Author: Forward Unlimited, 34 Carriage Square, Oxnard, CA 93030

Index Terms: Propulsion Energy Metastable Helium Free-Radical
Hydrogen Solar Pumped Plasma Antiproton Annihilation
Pgs: 134 Classification: U Security Marks:

Accession #:U00362 AD #:
TITLE: Antiproton Annihilation Propulsion
AUTHOR: Forward, R.L.
DATE: 09/01/85 Report #: UDR-TR-85-55
Corp.Author: Forward Unlimited, 34 Carriage Square, Oxnard, CA 93030

Index Terms: Antimatter Propulsion Antiproton Advanced
Pgs: 212 Classification: U Security Marks:

Accession #:U00363 AD #:
TITLE: Soviet Acquisition of Military Significant Western
Technology: An Update
AUTHOR:
DATE: 09/01/85 Report #:
Corp.Author:
Index Terms: Soviet Acquisition Western Technology KGB US Defense
Contractor GRU VPK Foreign Trade Computer
Pgs: 34 Classification: U Security Marks:

Accession #:U00364 AD #:
TITLE: Comparative Miss Distance Analysis
AUTHOR: Potter, J.E.
DATE: Report #: 8111F405-2
Corp.Author: Charles Stark Draper Laboratory, Inc., Cambridge, MA
02139
Index Terms: Miss Distance Analysis Small Angle Optical Sensor
Target Position Maximum Thrust Level
Pgs: 50 Classification: U Security Marks:

Accession #:U00365 AD #:
TITLE: Electromagnetic Gyro for Guided Electromagnetic Accelerator
Projectiles
AUTHOR: Potter, J.E.; Dauwalter, C.R.; Stanley, L.G.
DATE: Report #: 8408H244
Corp.Author: Charles Stark Draper Laboratory, Inc., Cambridge, MA
02139
Index Terms: Electromagnetic Gyro Accelerator Projectile Guided
High Exit Velocity
Pgs: 35 Classification: U Security Marks:

Accession #:U00366 AD #:
TITLE: The Graser
AUTHOR: Wohl, Richard
DATE: 11/01/84 Report #:
Corp.Author:
Index Terms: Gamma Ray Laser US USSR Directed Energy Experiment
Pgs: 7 Classification: U Security Marks:

Accession #:U00367 AD #:
TITLE: X-Ray/Gamma-Ray Laser Project Semiannual Progress Report
AUTHOR:
DATE: 12/30/74 Report #: UCRL-51823-74
Corp.Author: Univ. of California, Lawrence Livermore Laboratory,
Livermore, CA 94550
Index Terms: X-Ray Gamma-Ray Laser Project Design Iodine Pump
Nuclear Explosive XLR Target
Pgs: 55 Classification: U Security Marks:

Accession #:U00368 AD #:
TITLE: X-Ray and Y-Ray Lasers
AUTHOR: Chapline, George; Wood, Lowell
DATE: 02/01/75 Report #: UCRL-76530
Corp.Author: Univ. of California, Lawrence Livermore Laboratory,
Livermore, CA 94550
Index Terms: X-Ray Y-Ray Laser Description Analysis
Pgs: 12 Classification: U Security Marks:

Accession #:U00369 AD #:
TITLE: ERIS Inertial System Issues
AUTHOR: Elwell, John
DATE: Report #: B409D320
Corp.Author: Charles Stark Draper Laboratory, Inc., Cambridge, MA
02139
Index Terms: Inertial System ERIS KEW Interceptor SDI BMD
Pgs: 31 Classification: U Security Marks:

Accession #:U00370 AD #:
TITLE: Spatial Acquisition Algorithms and Systems for
Intersatellite Optical Communication Links
AUTHOR: Van Hove, P.; Chan, V.W.S.
DATE: 11/27/84 Report #: ESD-TR-84-016
Corp.Author: Mass. Inst. of Tech., Lincoln Laboratory, Lexington, MA
Index Terms: Spatial Acquisition Heterodyne Detection Bayes M-ary
Model Optical Communication Laser Satellite
Pgs: 132 Classification: U Security Marks:

Accession #:U00371 AD #:
TITLE: Satellite Power Systems (SPS) Concept Definition Study.
Vol. V Final Report, Transportation and Operation Analysis
AUTHOR:
DATE: 12/31/78 Report #: SD 78-AP-0023-5
Corp.Author: Rockwell International, Space Div., 12214 Lakewood
Blvd., Downey, CA 90241
Index Terms: Satellite Power System (SPS) Concept Definition Study
HLLV Ballistic Leo-to-Geo Transportation OTV Electric
Pgs: 195 Classification: U Security Marks:

Accession #:U00372 AD #:
TITLE: Solar Power Satellite System Def. Study Phase III, Final
Report Vol. V - Space Transportation Analysis
AUTHOR: Woodcock, G.R.
DATE: 06/01/80 Report #: NASA-CR-160746
Corp.Author: Boeing Aerospace Co., P.O. Box 3999, Seattle, WA 98124
Index Terms: Solar Power Satellite System Laser Small HLLV
Analysis Trajectory Shuttle-Derived Transportation
Pgs: 153 Classification: U Security Marks:

Accession #:U00373 AD #:
TITLE: Solar Power Satellite System Definition Study, Vol VI Phase
I Final Briefing Space Construction and Transportation
AUTHOR: Woodcock, G.R.
DATE: 12/31/80 Report #: NASA-CR-160375
Corp.Author: Boeing Aerospace Co., P.O. Box 3999, Seattle, WA 98124
Index Terms: SPS Solar Power Satellite System Final Briefing
Evaluation Space Construction Transportation
Pgs: 286 Classification: U Security Marks:

Accession #:U00374 AD #:
TITLE: Software for Ballistic Missile Defense
AUTHOR: Lin, Herbert
DATE: 06/01/85 Report #:
Corp.Author: Mass. Inst. of Tech., Center for International Studies,
Cambridge, MA 02139
Index Terms: BMD Computer Software Development Design
Micro-Electronic
Pgs: 81 Classification: U Security Marks:

Accession #:U00375 AD #:
TITLE: Aerodynamic Investigations Guidelines Data, Task
Assignment, Final Report
AUTHOR:
DATE: 02/11/86 Report #: BMD/H-86-0118-TR
Corp.Author: The BMD Corporation, 2227 Drake Ave., Huntsville, AL
35805
Index Terms: Aerodynamic Investigation HEDS Interceptor
Requirement Baseline

Pgs: 5

Classification: U

Security Marks:

Accession #:U00376

AD #:

TITLE: Eastport Study Group, Summer Study 1985 - Report to the
Director Strategic Defense Initiative

AUTHOR:

DATE: 12/01/85

Report #:

Corp.Author: Eastport Study Group

Index Terms: SDI Physical Characteristic Battle Management
Communication System Architecture Software

Pgs: 70

Classification: U

Security Marks:

Accession #:U00377

AD #:

TITLE: Air Force Participation in SDI

AUTHOR: Rankine, Gen., USAF

DATE: 12/10/85

Report #:

Corp.Author: US Air Force, DCS Research, Development & Acquisition
Special Assistant for SDI

Index Terms: Air Force Briefing SDI Participation

Pgs: 12

Classification: U

Security Marks:

Accession #:U00378

AD #:

TITLE: Navy Programs for the Strategic Defense Initiative

AUTHOR: Coffey, Timothy

DATE: 12/10/85

Report #:

Corp.Author: Naval Research Labs

Index Terms: Navy Briefing SDI Program Battle Management Fund
System Distribution DEW Satellite

Pgs: 22

Classification: U

Security Marks:

Accession #:U00379

AD #:

TITLE: US Army Briefing on Strategic Defense Command

AUTHOR: Fox, Eugene, Maj. Gen.

DATE: 12/10/85

Report #:

Corp.Author: US Army Strategic Defense Command

Index Terms: US Army Briefing SDC SDI Treaty Limitation Funding
BMD Intercept Terminal Imaging Radar Ground Based

Pgs: 20

Classification: U

Security Marks:

Accession #:U00380

AD #:

TITLE: Radar Sensor Technology

AUTHOR: Blake, Carl

DATE: 12/10/85

Report #:

Corp.Author: Mass. Inst. of Technology, Lincoln Laboratory

Index Terms: Radar Sensor Function BMD System SBR Nuclear Electric

Pgs: 12

Classification: U

Security Marks:

Accession #:U00381 AD #:
TITLE: Strategic Defense Initiative at Los Alamos
AUTHOR: Giovanielli, Damon V.
DATE: 12/10/85 Report #:
Corp.Author: Los Alamos National Laboratory, Los Alamos, NM 87545

Index Terms: Briefing NPB Laser 250 MeV Beam Survivability
Lethality Optic

Pgs: 21 Classification: U Security Marks:

Accession #:U00382 AD #:
TITLE: FEL Program at LLNL
AUTHOR: Swingle, James C.
DATE: 12/10/85 Report #:
Corp.Author: Lawrence Livermore National Laboratory, Livermore, CA 94550

Index Terms: Briefing High Power Masteroscillator Power Amplifier
Electron Laser FEL Wiggler Magnet

Pgs: 19 Classification: U Security Marks:

Accession #:U00383 AD #:
TITLE: Guidance and Control Issues for Kinetic Energy Weapon
Systems
AUTHOR: Fraser, Donald
DATE: 12/10/85 Report #:
Corp.Author: Draper Labs

Index Terms: SDI Briefing Kinetic Energy Weapon System

Pgs: 16 Classification: U Security Marks:

Accession #:U00384 AD #:
TITLE: C3 Battle Management: The Draw on Computing Technology by
the Strategic Defense Initiative
AUTHOR: Friedlander, Carl; Kushner, Brian
DATE: 12/10/85 Report #:
Corp.Author: The BMD Corp.

Index Terms: SDI Briefing Computing Technology Software
Reliability Deployment Communication

Pgs: 33 Classification: U Security Marks:

Accession #:U00385 AD #:
TITLE: Opportunities for Insertion of Optical Technology into
Computer Technology
AUTHOR: Miceli, William J.
DATE: 12/10/85 Report #:
Corp.Author: Rome Air Development Center, Hanscom AFB, MA

Index Terms: SDI Briefing Optical Computing Circuit Element
Parallel Logic Processor Detuning

Pgs: 22 Classification: U Security Marks:

Accession #:U00386 AD #:
TITLE: Strategic Defense Initiative: System Architecture Studies;
Results of Phase I
AUTHOR: Gardner, John L.
DATE: 12/10/85 Report #:
Corp.Author: SDIO

Index Terms: SDI Briefing PAS Objective System Analysis Program
Requirement Defensive Mission Threat Architecture
Pgs: 25 Classification: U Security Marks:

Accession #:U00387 AD #:
TITLE: Strategic Defense Initiative: Critical Issues
AUTHOR: Nuckolls, J.H.
DATE: 06/01/85 Report #: UCRL-92803
Corp.Author: Lawrence Livermore Lab., Livermore, CA

Index Terms: SDI ICBM Soviet Objection American Study Critical
Issue
Pgs: 15 Classification: U Security Marks:

Accession #:U00391 AD #:
TITLE: Survival: Soviet Views on SDI
AUTHOR: Meyer, Stephen M.
DATE: 12/01/85 Report #: ISSN 0039-6338
Corp.Author: International Inst. for Strategic Studies, 23 Tavistock
St., London, WC2E 7NQ
Index Terms: SDI Soviet Perception Threat Innovation Design
Technological Operational
Pgs: 18 Classification: U Security Marks:

Accession #:U00392 AD #: ADA162708
TITLE: Adaptive Antenna Nulling Performance in a Dispersive
Propagation Medium
AUTHOR: Ibaraki, R.Y.; Tsui, E.T.
DATE: 02/15/85 Report #: DNA-TR-85-75, MT-TR-8502S
Corp.Author: MAXIM Technologies, Inc., 3930 Freedom Circle, Suite A,
Santa Clara, CA 95054
Index Terms: Phased Array Antijam Adaptive Nulling Antenna Fading
Striation Scintillation Evaluation
Pgs: 58 Classification: U Security Marks:

Accession #:U00393 AD #:
TITLE: Transfer Coefficient Measurement Study
AUTHOR: Valdis, L.V.
DATE: 02/19/85 Report #: DNA-TR-85-70, 016303-1-F
Corp.Author: Univ. of Michigan, 550 E. University Ave., Ann Arbor, MI
48109-1092
Index Terms: Transfer Coefficient Surface Field Measurement EMP
Interaction Experimental Study
Pgs: 106 Classification: U Security Marks:

Accession #:U00394 AD #:
TITLE: Fuzzy Set Approach to Vulnerability Analysis
AUTHOR: Schlegel, P.R.; Shear, R.E.; Taylor, M.S.
DATE: 12/01/85 Report #: BRL-TR-2697
Corp.Author: US Army Ballistic Research Laboratory, Aberdeen Proving
Ground, MD 21005-5066
Index Terms: Fuzzy Vulnerability Analysis Bootstrap Logic Vagueness
Pgs: 34 Classification: U Security Marks:

Accession #:U00395 AD #:
TITLE: Investigation of the Basic Mechanisms of Radiation Effects
on Electronic Materials and Devices and Development of
AUTHOR: Siegfried, D.; Shanfield, Z.; Srouf, J.R.; Hartmann, R.A.
DATE: 12/01/83 Report #: DNA-TR-84-212-V1, NRTC 83-25R
Corp.Author: Northrop Res. and Tech. Ctr., One Research Park, Palos
Verdes Peninsula, CA
Index Terms: Radiation Effect Hardening Error Hard Soft Single
Event Phenomena Neutron Damage Electronic
Pgs: 96 Classification: U Security Marks:

Accession #:U00396 AD #: ADE500738
TITLE: Report of the AD HOC Committee on the Potential Benefits to
U.S. Industry From the SDI/IST Scientific Program, Final
AUTHOR: Balko, B.
DATE: 11/01/85 Report #: IDA-M-110
Corp.Author: Institute for Defense Analyses, 1801 N. Beauregard St.,
Alexandria, VA 22311
Index Terms: SDI Research IRST Industrial Benefits Productivity
Pgs: 214 Classification: U Security Marks:

Accession #:U00397 AD #:
TITLE: Strategic Defense Initiative and United States Alliance
Strategy
AUTHOR: Gallis, P.E.; Lowenthal, M.M.; Smith, S.S.
DATE: 02/01/85 Report #: 85-48F
Corp.Author: Congressional Research Service, Library of Congress
Index Terms: SDI U.S. Alliance NATO Military Effect Political
Repercussion
Pgs: 75 Classification: U Security Marks:

Accession #:U00398 AD #:
TITLE: Shuttle Derived Launch Vehicle Wind Tunnel Tests
AUTHOR: Towell, J.R.; Buell, D.N.
DATE: 10/16/85 Report #: AB6-11069
Corp.Author: Martin Marietta Michoud Aerospace, New Orleans, LA
Index Terms: SDV Wind Tunnel Test Objectives Hardware Result
Pgs: 9 Classification: U Security Marks:

Accession #:U00399 AD #:
TITLE: Ballistic Missile Defense: Monthly Progress Report
AUTHOR:
DATE: 01/01/86 Report #: DASG60-83-C-0044
Corp.Author: Charles Stark Draper Laboratory, 555 Technology Square,
Cambridge, MA 02139
Index Terms: BMD Monthly Progress Report Interceptor Avionic
Guidance
Pgs: 5 Classification: U Security Marks:

Accession #:U00400 AD #:
TITLE: FY 1987 Department of Defense Program for Research and
Development
AUTHOR:
DATE: 02/18/86 Report #:
Corp.Author: Dept. of Defense, The Pentagon, Washington, D.C.
20301-3140
Index Terms: Defense Research Development FY '87 Overview USSR
Strategic Nonstrategic Nuclear Program Balance
Pgs: 98 Classification: U Security Marks:

Accession #:U00401 AD #:
TITLE: Strategic Defense Business: An Interview with SDIO Director
Lt. General James Abrahamson
AUTHOR: Gliksman, A.
DATE: 03/01/86 Report #:
Corp.Author: National Defense Magazine
Index Terms: SDI BMD Technology Progress Rail Gun Homing Overlay
Experiment Airborne Optical Adjunct Allies
Pgs: 5 Classification: U Security Marks:

Accession #:U00402 AD #:
TITLE: Strategic Defense Initiative: The Issues Faced by Strategic
Defense Initiative Programme
AUTHOR: Yonas, Gerold
DATE: Report #:
Corp.Author: Defense Update / 68
Index Terms: Background Depth SDI Battle Management Intercept
Phase Safeguard/Spartan System DARPA Beam Weapon
Pgs: 10 Classification: U Security Marks:

Accession #:U00403 AD #:
TITLE: Aperture Antenna Effects After Propagation Through Strongly
Disturbed Random Media
AUTHOR: Knepp, D.L.
DATE: 02/01/84 Report #: DNA-TR-84-80, MRC-R-819
Corp.Author: Mission Research Corp., P.O. Drawer 719, Santa Barbara,
CA 93102-0719
Index Terms: Aperture Antenna Space Based Radar Signal
Scintillation Ionospheric Propagation Random

Pgs: 64

Classification: U

Security Marks:

Accession #:U00404

AD #:

TITLE: 2-D Simulations of the NRL Laser Experiment

AUTHOR: Lyon, J.G.

DATE: 05/08/85

Report #: NRL-MR-5491

Corp.Author: Naval Research Laboratory, Washington, D.C. 20375-5000

Index Terms: Gas-Dynamics Numerical Simulation Laser Stability
Blast Wave 2-D NRL Experiment

Pgs: 38

Classification: U

Security Marks:

Accession #:U00405

AD #:

TITLE: Advanced Materials Research Status & Requirements: Vols. I
& II

AUTHOR: Lee, J.A.; Mykkanen, D.L.

DATE: 03/07/86

Report #: BDM/H-86-0115-TR

Corp.Author: BDM Corp., 2227 Drake Ave., Huntsville, AL 35805

Index Terms: Metal Polymer Matrix Composite Cost Analysis Aluminum
Magnesium Titanium Epoxy Phenolic Polyimide Material

Pgs: 350

Classification: U

Security Marks:

Accession #:U00406

AD #:

TITLE: Close in Look at Strategic Defense Initiative

AUTHOR: Bate, R.; Cooper, K.B.; Dombey, B.; Edgington, W.R.

DATE: 04/16/85

Report #:

Corp.Author: The Technical Marketing Society of America

Index Terms: SDI LISP Smart Weapon System DARPA Future
Congressional Overview Industry Battle Management

Pgs: 151

Classification: U

Security Marks:

Accession #:U00407

AD #:

TITLE: Cost of Space-Based Laser Ballistic Missile Defense

AUTHOR: Field, George; Spergel, David

DATE: 03/21/86

Report #:

Corp.Author: Harvard University, Dept. of Astronomy, Cambridge, MA
02138

Index Terms: Space-Based Laser BMD Cost Feasibility DEW

Pgs: 6

Classification: U

Security Marks:

Accession #:U00409

AD #: ADA163391

TITLE: Final Report of Ad Hoc Panel on Army Utilization of Space
Assets

AUTHOR: O'Neill, L.H.; Decker, G.F.; Delaney, L.J. add. auth.

DATE: 12/01/83

Report #:

Corp.Author: Army Science Board, DASA(RDA), Washington, D.C.
20310-0103

Index Terms: Utilization Space Asset Platform Technology
Communication Targeting Battlefield Environment

Pgs: 27

Classification: U

Security Marks:

Accession #:U00413

AD #:

TITLE: Draft: A Report to the Director Strategic Defense Initiative
Organization, Summer Study 1985

AUTHOR:

DATE: 12/06/85

Report #:

Corp.Author: Eastport Study Group

Index Terms: Overview Perspective Hardware Software Technology
Battle Management Doctrine Policy Simulation Testing

Pgs: 72

Classification: U

Security Marks:

Accession #:U00415

AD #:

TITLE: Reflecting Soviet Thinking in the Structure of Combat
Models and Data

AUTHOR: Bennett, Bruce

DATE: 04/01/85

Report #: RAND/P-710B

Corp.Author: The Rand Corp., 1700 Main St., P.O. Box 2138, Santa
Monica, CA 90406-2138

Index Terms: Soviet Thinking Combat Model Data Structure Warfare
Phenomena

Pgs: 18

Classification: U

Security Marks:

Accession #:U00416

AD #:

TITLE: Shuttle Systems, Weight and Performances

AUTHOR: Goree, J.F.; Kohrs, R.H.

DATE: 02/01/82

Report #: JSC-09095-61

Corp.Author: NASA, Lyndon B. Johnson Space Center, Houston, TX

Index Terms: Shuttle System Weight Performance STS BRM Mission
Orbiter Personnel

Pgs: 81

Classification: U

Security Marks:

Accession #:U00417

AD #:

TITLE: Orbital Transfer Vehicle: Concept Definition and Systems
Analysis Study, Final Report - Phase I, Vol. I - Executive

AUTHOR:

DATE: 01/01/86

Report #: D180-29108-1

Corp.Author: Boeing Aerospace Co., Seattle, WA 98124

Index Terms: Orbital Transfer Vehicle System Analysis Study
Technology Assessment Space-Based Ground-Based

Pgs: 28

Classification: U

Security Marks:

Accession #:U00418 AD #:
TITLE: Expert Systems in the SDI Environment
AUTHOR: Chien, Y.; Liebowitz, J.
DATE: 07/01/86 Report #:
Corp.Author: George Washington University, National Science
Foundation
Index Terms: SDI Definition Environment Characteristic Expert
System Development Application
Pgs: 121 Classification: U Security Marks:

Accession #:U00419 AD #: ADA161719
TITLE: Concepts, Problems, and Opportunities for Use of
Annihilation Energy: An Annotated Briefing on Near Term on
AUTHOR: Augenstein, B.W.
DATE: 06/01/85 Report #: N-2302-AF/RC
Corp.Author: The RAND Corp., 1700 Main St., Santa Monica, CA 90406
Index Terms: Annihilation Reaction Energy Antimatter Application
Feasibility
Pgs: 67 Classification: U Security Marks:

Accession #:U00420 AD #:
TITLE: Soviet Military Power
AUTHOR:
DATE: 01/01/81 Report #:
Corp.Author: Superintendent of Documents, U.S. Government Printing
Office, Washington, D.C.
Index Terms: Soviet Military Power Resource Allocation Armed Force
Organization Strategic Global Projection Challenge
Pgs: 99 Classification: U Security Marks:

Accession #:U00421 AD #:
TITLE: Soviet Military Power - 1984
AUTHOR:
DATE: 01/01/84 Report #:
Corp.Author: Superintendent of Documents, U.S. Government Printing
Office, Washington, D.C.
Index Terms: Soviet Military Power Establishment Global Warfare
Sustainability Readiness Mobility Industrial Complex
Pgs: 136 Classification: U Security Marks:

Accession #:U00422 AD #:
TITLE: Soviet Year in Space - 1985
AUTHOR: Johnson, N.L.
DATE: 01/01/85 Report #:
Corp.Author: Teledyne Brown Engineering, 1250 Academy Park Loop,
Colorado Springs, CO 80910
Index Terms: Soviet Space Vehicle Surveillance Launch Satellite
Communication Military Electronic Intelligence Solar
Pgs: 107 Classification: U Security Marks:

Accession #:U00423 AD #:
TITLE: Soviet Military Power - 1986
AUTHOR:
DATE: 01/01/86 Report #:
Corp.Author: Superintendent of Documents, U.S. Government Printing
Office, Washington, D.C.
Index Terms: Soviet Military Nuclear Force Space Operation
Strategic Defense Readiness Mobility Sustainability
Pgs: 156 Classification: U Security Marks:

Accession #:U00424 AD #:
TITLE: SDI: Progress and Challenges
AUTHOR: Waller, D.; Bruce, J.; Cook, D.
DATE: 03/17/86 Report #:
Corp.Author:
Index Terms: SDI Progress Research Development Feasibility
Scientist Interview BMD
Pgs: 64 Classification: U Security Marks:

Accession #:U00425 AD #: ADA163975
TITLE: Effect of Energy Dissipation Due to Friction at the Joint
of a Simple Beam Structure
AUTHOR: Donnelly, R.P.
DATE: 12/01/85 Report #: AFIT/GAE/AA/85D-5
Corp.Author: Air Force Institute of Technology, Wright Patterson AFB,
OH 45433
Index Terms: Joint Damping Friction Coulomb Beam Structure
Dissipation Energy
Pgs: 69 Classification: U Security Marks:

Accession #:U00426 AD #: ADA168946
TITLE: Duel Between an ASAT with Multiple Kill Vehicles and a
Space-Based Weapons Platform with Kinetic Energy Weapons
AUTHOR: Cutchis, P.
DATE: 01/01/86 Report #: IDA Memorandum Report M-144
Corp.Author: Institute for Defense Analyses, 1801 N. Beauregard St.,
Alexandria, VA 22311
Index Terms: ASAT Space Platform Survivability Kill Probability
Vehicle Kinetic Energy Weapon
Pgs: 38 Classification: U Security Marks:

Accession #:U00428 AD #:
TITLE: Star Wars Swindle (Hawking Nuclear Snake Oil)
AUTHOR: Reed, Fred
DATE: 05/01/85 Report #:
Corp.Author: Harpers Magazine
Index Terms: SDI Star Wars Feasibility Criticism Cost
Pgs: 9 Classification: U Security Marks:

Accession #:U00429 AD #:
TITLE: Applications of Gamma-Ray Lasers
AUTHOR: Balko, B.; Cohen, L.; Hartmann, F.X.
DATE: 11/01/85 Report #: M-141
Corp.Author: Institute for Defense Analyses, 1801 N. Beauregard St.,
Alexandria, VA 22311
Index Terms: Gamma-Ray Laser Superradiance Coherence Length
Synchrotron Radiation Holography Tomography Military
Pgs: 8 Classification: U Security Marks:

Accession #:U00430 AD #:
TITLE: Conversion of the Camms Nuclear/Chemical Module Model from
Fortran to Pascal, Vol. I
AUTHOR: Schlager, M.M.
DATE: 05/31/83 Report #: ORI-TR-2178
Corp.Author: ORI, Inc., 1375 Piccard Dr., Rockville, MD 20850
Index Terms: Computer Database Program Tactical Nuclear Chemical
Warfare Integrated Battle Target Acquisition
Pgs: 130 Classification: U Security Marks:

Accession #:U00431 AD #:
TITLE: Conversion of the Camma Nuclear/Chemical Module Model from
Fortran to Pascal
AUTHOR: Schlager, M.M.
DATE: 05/31/83 Report #: ORI-TR-2178-VII
Corp.Author: ORI, Inc., 1375 Piccard Dr., Rockville, MD 20850
Index Terms: Computer Database Program Tactical Nuclear Chemical
Warfare Target Acquisition Simulation Integrated
Pgs: 236 Classification: U Security Marks:

Accession #:U00432 AD #:
TITLE: U.S. Weapon Systems Costs, 1986
AUTHOR:
DATE: 04/01/86 Report #:
Corp.Author: Data Search Associates, P.O. Box 8361, Fountain Valley,
CA 92728-8361
Index Terms: Cost Aircraft Missile Naval Vessel Tracked Combat
Vehicle Ordnance System
Pgs: 234 Classification: U Security Marks:

Accession #:U00433 AD #: ADA166159
TITLE: Microwave Emission from a Nonrelativistic Electron Beam
AUTHOR: Face, S.; Hobbs, W.; Cozart, E.
DATE: 10/31/84 Report #: DNA-TR-85-19
Corp.Author: Kaman Sciences Corp., P.O. Box 7463, Colorado Springs,
CO 80933-7463
Index Terms: Microwave Emission Experiment High-Frequency Threat
Electron Beam
Pgs: 28 Classification: U Security Marks:

Accession #:U00434 AD #:
TITLE: Conceptual Study of the LB/TS Instrumentation, Data
Acquisition and Facility Control System
AUTHOR: Starr, R.F.; Taylor, J.L.; Boylan, D.E.
DATE: 09/12/84 Report #: DNA-TR-84-340
Corp.Author: Sverdrup Technology, Inc., P.O. Box 884, Tullahoma, TN
37388
Index Terms: Impulse Facility Blast Wave Instrumentation Data
Acquisition System Physical/Intrusive Sensor Thermal
Pgs: 246 Classification: U Security Marks:

Accession #:U00435 AD #:
TITLE: Brief Assessment of Structural Composite Materials Research
in Universities in the United States
AUTHOR: Kerber, R.L.
DATE: 12/01/85 Report #: IDA Memorandum Report M-156
Corp.Author: Institute for Defense Analyses, 1801 N. Beauregard St.,
Alexandria, VA 2311
Index Terms: Structural Composite Research Technology Base
University Funding
Pgs: 30 Classification: U Security Marks:

Accession #:U00436 AD #:
TITLE: SDI System Architecture and Key Tradeoff Studies - Appendix
F, Functional Flow Diagrams and Descriptions
AUTHOR:
DATE: 08/01/86 Report #: SSD 86-0134-2F
Corp.Author: Rockwell International Corp., P.O. Box 3644, Seal Beach,
CA 90740-7644
Index Terms: SDI Functional Description Readiness BM C2 SATKA Flow
Diagram
Pgs: 98 Classification: U Security Marks:

Accession #:U00437 AD #:
TITLE: SDI System Architecture and Key Tradeoff Studies - Appendix
G, BM/C3 Information Flow Requirements
AUTHOR:
DATE: 08/01/86 Report #: SSD 86-0134-2G
Corp.Author: Rockwell International Corp., P.O. Box 3644, Seal Beach,
CA 90740-7644
Index Terms: SDI System Architecture BM C3 Land Area Defend
Strategic Offensive Force Missile Threat
Pgs: 232 Classification: U Security Marks:

Accession #:U00438 AD #: ADA133735
TITLE: RF Systems in Space - Space-Based Radar Analyses
AUTHOR: Mrstik, A.V.; Beste, D.; Bartek, R.J.
DATE: 04/01/83 Report #: RADC-TR-83-91
Corp.Author: General Research Corp., P.O. Box 6770, Santa Barbara, CA
93111
Index Terms: Simulation Space-Based Radar Fed Phased Array
Pgs: 214 Classification: U Security Marks:

Accession #:U00439 AD #:
TITLE: Technology, Innovation and Military Space
AUTHOR:
DATE: 10/11/84 Report #:
Corp.Author: Pasha Publications, Inc., 1401 Wilson Blvd, Arlington,
VA 22209
Index Terms: Military Space Technology Innovation Political
Prospect Power Electromagnetic Launch Pulsed System
Pgs: 150 Classification: U Security Marks:

Accession #:U00440 AD #:
TITLE: SDI: Critical Issues for Space Deployment
AUTHOR:
DATE: 04/21/86 Report #:
Corp.Author: Pasha Publications, Inc., 1401 Wilson Blvd., Arlington,
VA 22209
Index Terms: SDI Technical Progress Research Space Transportation
Policy Aspect Deployment
Pgs: 77 Classification: U Security Marks:

Accession #:U00441 AD #:
TITLE: Report of the Secretary of Defense to Congress: FY 1987
Budget, FY 1988 Authorization Request and FY 1987-1991
AUTHOR: Weinberger, Casper W.
DATE: 02/05/86 Report #:
Corp.Author: U.S. Government Printing Office
Index Terms: Defense Policy Goal Budget SDI Nuclear Force Resource
Program Command Control Communication Intelligence
Pgs: 336 Classification: U Security Marks:

Accession #:U00442 AD #:
TITLE: Annual Report to the Congress FY 1987: Executive Summary
AUTHOR: Weinberger, Casper W.
DATE: 02/05/86 Report #:
Corp.Author: Government Printing Office
Index Terms: Defense Policy Resource Security Goal Threat
Objective FY 1987 Budget
Pgs: 35 Classification: U Security Marks:

Accession #:U00443 AD #:
TITLE: Electron-Ion Recombination in Air EMP Fields
AUTHOR: Chervenak, J.G.; van Lint, V.A.J.
DATE: 06/12/85 Report #: DNA-TR-85-202
Corp.Author: Mission Research Corp., 5434 Ruffin Rd., San Diego, CA
92123-1313
Index Terms: EMP SREMP Recombination Electron-Ion Air Conductivity
Pgs: 70 Classification: U Security Marks:

Accession #:U00444 AD #:
TITLE: U.S. Intelligence and Soviet Star Wars
AUTHOR: Richelson, J.T.
DATE: 05/01/86 Report #:
Corp.Author: Bulletin of Atomic Scientists, 5801 S. Kenwood Ave.,
Chicago, ILL 60637
Index Terms: Soviet Strategic Defense Initiative U.S. Intelligence
Pgs: 3 Classification: U Security Marks:

Accession #:U00445 AD #:
TITLE: Star Wars Technology Threatens Satellites
AUTHOR: Tirman, J.
DATE: 05/01/86 Report #:
Corp.Author: Bulletin of Atomic Scientists, 5801 S. Kenwood Ave.,
Chicago, ILL 60637
Index Terms: Satellite Star Wars ASAT Weapon Threat
Pgs: 5 Classification: U Security Marks:

Accession #:U00446 AD #:
TITLE: Advanced Concepts Theory Annual Report 1985
AUTHOR:
DATE: 04/23/86 Report #: NRL Memorandum Report 5759
Corp.Author: Naval Research Laboratory, Plasma Radiation Branch,
Washington, D.C. 20375-5000
Index Terms: Plasma Radiation Hydrodynamics Mixtures
Pgs: 122 Classification: U Security Marks:

Accession #:U00447 AD #:
TITLE: Materials for Syngas Coolers of Entrained Slagging Gasifiers
AUTHOR: Perkins, R.A.
DATE: Report #:
Corp.Author: Lockheed Palo Alto Research Laboratories, California
Index Terms: Slagging Gasifier Syngas Cooler Gas Turbine Steam
Generating System
Pgs: 39 Classification: U Security Marks:

Accession #:U00448 AD #: ADD113203
TITLE: Grain Refinement of Wrought Beryllium Products by Alloying
AUTHOR: Webster, Donald
DATE: 10/07/77 Report #: 30
Corp.Author: Lockheed Research Laboratory, Palo Alto, CA 93404
Index Terms: Grain Refinement Alloying Beryllium BeO Particle
Metallurgy
Pgs: 7 Classification: U Security Marks:

Accession #:U00449 AD #:
TITLE: Union of Concerned Scientists Speakers Briefing Package
AUTHOR:
DATE: Report #:
Corp.Author: Union of Concerned Scientists, 26 Church St., Cambridge,
MA 02238
Index Terms: Nuclear War/Winter Threat Star Wars Test Ban Arms
Control Space-Based Missile Defense ICBM
Pgs: 50 Classification: U Security Marks:

Accession #:U00450 AD #:
TITLE: Peace Studies Briefing Number 26 - Could SDI Make Trident
Obsolete?
AUTHOR: O'Connell, James
DATE: 03/10/86 Report #:
Corp.Author: University of Bradford
Index Terms: SDI Credibility Trident Britain Nuclear Force
Pgs: 5 Classification: U Security Marks:

Accession #:U00451 AD #:
TITLE: SDI System Architecture and Key Tradeoff Studies - Appendix
R, National Resource Impact Assessment
AUTHOR:
DATE: 08/01/86 Report #: SSD 86-0134-2R
Corp.Author: Rockwell International Corp., P.O. Box 3644, Seal Beach,
CA 90740-7644
Index Terms: SDI System Architecture BM C3 Directed Energy Weapon
Requirement Response Threat Impact Assessment Sensor
Pgs: 60 Classification: U Security Marks:

Accession #:U00452 AD #:
TITLE: SDI System Architecture and Key Tradeoff Studies - Appendix
S, Economic Impact Assessment
AUTHOR:
DATE: 08/01/86 Report #: SSD 86-0134-2S
Corp.Author: Rockwell International Corp., P.O. Box 3644, Seal Beach,
CA 90740-7644
Index Terms: SDI System Architecture Economic Impact Assessment
Pgs: 58 Classification: U Security Marks:

Accession #:U00453 AD #:
TITLE: SDI System Architecture and Key Tradeoff Studies - Appendix
U, Hardware, Software, and Processor Requirements
AUTHOR:
DATE: 08/01/86 Report #: SSD 86-0134-2U
Corp.Author: Rockwell International Corp., P.O. Box 3644, Seal Beach,
CA 90740-7644
Index Terms: SDI System Architecture Software Hardware Processor
Requirement Artificial Intelligence
Pgs: 448 Classification: U Security Marks:

Accession #:U00454 AD #:
TITLE: GENIE: An Inference Engine with Applications to
Vulnerability Analysis
AUTHOR: Brundick, F.S.; Dumer, J.C.; Hanratty, T.P.; Tanenbaum,
P.J.
DATE: 06/01/86 Report #: BRL-TR-2739
Corp.Author: Ballistic Research Lab., Aberdeen Proving Ground, MA
Index Terms: GENIE Inference Engine Artificial Intelligence
Vulnerability Analysis Knowledge Representation
Pgs: 52 Classification: U Security Marks:

Accession #:U00455 AD #:
TITLE: Strategic Defense Initiative Program: Status of Airborne
Optical Adjunct and Terminal Imaging Radar
AUTHOR:
DATE: 06/23/86 Report #: GAO/NSIAD-86-153
Corp.Author: U.S. General Accounting Office, Washington, D.C. 20548
Index Terms: SDI Airborne Optical Adjunct Terminal Imaging Radar
Antimissile Defense
Pgs: 21 Classification: U Security Marks:

Accession #:U00456 AD #:
TITLE: Strategic Defense Initiative Program: Information on
Contracting and Other Activities
AUTHOR:
DATE: 07/16/86 Report #: GAO/NSIAD-86-151FS
Corp.Author: U.S. General Accounting Office, Washington, D.C. 20548
Index Terms: SDI Contract Reporting System
Pgs: 17 Classification: U Security Marks:

Accession #:U00457 AD #:
TITLE: Strategic Defense Initiative Program: Controls Needed Over
Construction and Operational Support Funds
AUTHOR:
DATE: 07/24/86 Report #: GAO/NSIAD-86-145
Corp.Author: U.S. General Accounting Office, Washington, D.C. 20548
Index Terms: SDI Background Construction Project Improvement
Requirement
Pgs: 45 Classification: U Security Marks:

Accession #:U00460 AD #:
TITLE: Automated Weaponneering Optimization Program (AWOP) - User
and Analyst Manual
AUTHOR:
DATE: 10/15/85 Report #: 61JTCG/ME-3-3
Corp.Author: Joint Technical Coordinating Group for Munitions
Effectiveness
Index Terms: Automated Weaponneering Optimization Operating

Pgs: 311

Instruction Maintenance Enemy Aircraft Target Warhead
Classification: U Security Marks:

Accession #:U00461

AD #:

TITLE: Radiation Hardened VLSI Component Technology - Second
Quarterly Report Progress Through April, 1986

AUTHOR:

DATE: 06/01/86

Report #:

Corp.Author: RCA Corporation, Microelectronics Center

Index Terms: Radiation Hardened VLSI Component Technology Solid
Phase Epitaxy

Pgs: 23

Classification: U

Security Marks:

Accession #:U00462

AD #:

TITLE: Plans, Programs and the Defense Budget

AUTHOR: Meehan, R.P.

DATE: 11/01/85

Report #:

Corp.Author: National Defense University Press, Washington, D.C.

Index Terms: Defense Budget Planning Improvement Resource
Requirement Strategic Underpin

Pgs: 49

Classification: U

Security Marks:

Accession #:U00463

AD #: ADA164747

TITLE: Reliability Prediction for Spacecraft

AUTHOR: Hecht, H.; Hecht, M.

DATE: 12/01/85

Report #: RADC-TR-85-229

Corp.Author: Rome Air Development Center, Griffiss AFB, NY 13441-5700

Index Terms: Reliability Prediction Analyses Spacecraft

Pgs: 156

Classification: U

Security Marks:

Accession #:U00464

AD #:

TITLE: Ballistic Missile Defense Would Reduce the Danger of War in
Europe

AUTHOR: Blair, David; Chow, B.G.

DATE: 02/01/86

Report #:

Corp.Author: Pan Heuristics, R & D Associates, P.O. Box 9695, Marina
del Rey, CA 90295

Index Terms: NATO BMD Soviet Procurement Theater Ballistic Missile
Incentive Contrast Stability General Purpose Force

Pgs: 18

Classification: U

Security Marks:

Accession #:U00465

AD #:

TITLE: Numerical Simulation of the Laser-Target Interaction and
Blast Wave Formation in the DNA/NRL Laser Experiment

AUTHOR: Guiliani, J.L., Jr.; Mulbrandon, M.

DATE: 05/09/86

Report #: NRL MR-5762

Corp.Author: Naval Research Laboratory, Washington, D.C. 20375-5000

Index Terms: Laser Plasma Blast Wave Numerical Simulation
Raleigh-Taylor Instability

Pgs: 60 Classification: U Security Marks:

Accession #:U00466 AD #:
TITLE: Effectiveness of Space-Based Laser Defenses, Boost Phase
Through Midcourse
AUTHOR: Cunningham, C.T.
DATE: 10/09/84 Report #:
Corp.Author: Los Alamos National Laboratories

Index Terms: Space-Based Laser Defense Boost Phase Midcourse
Effectiveness
Pgs: 20 Classification: U Security Marks:

Accession #:U00467 AD #:
TITLE: Robust Approach to SALT III Planning - Parts I, II and III
AUTHOR: Niemela, L.Q.
DATE: 02/19/81 Report #:
Corp.Author: Artemis Corporation

Index Terms: SALT III Planning Strategic Objective Option
Pgs: 23 Classification: U Security Marks:

Accession #:U00468 AD #: ADA166105
TITLE: Generation of Field Sensitive Interface States in
Commercial CMOS Devices
AUTHOR: Crowley, J.L.; Dries, L.J.
DATE: 05/31/84 Report #: DNA-TR-84-223
Corp.Author: Lockheed Missiles and Space Co., 3251 Hanover St., Palo
Alto, CA 94306
Index Terms: Field Sensitive Interface State Radiation Hardness
Oxide CMOS Capacitor Cobalt 60
Pgs: 44 Classification: U Security Marks:

Accession #:U00469 AD #:
TITLE: Critique of System Analysis in the DTA Study Directed
Energy Missile Defense in Space
AUTHOR: Cunningham, C.T.
DATE: 08/30/84 Report #: DDV-84-0007
Corp.Author: Lawrence Livermore Laboratory

Index Terms: Directed Energy Missile Defense Analysis System
Pgs: 12 Classification: U Security Marks:

Accession #:U00470 AD #:
TITLE: Strategic Defense Initial Information Architecture and Data
Processing Evaluation
AUTHOR: Small, A.W.
DATE: 11/05/84 Report #:
Corp.Author: Mitre Corporation

Index Terms: Strategic Defense Data Processing Evaluation
Information Architecture
Pgs: 22 Classification: U Security Marks:

Accession #:U00472 AD #:
TITLE: Optical Filtering Techniques
AUTHOR: Psaltis, D.
DATE: 03/01/86 Report #: RADC-TR-86-2
Corp.Author: California Inst. of Technology, Pasadena, CA 91125

Index Terms: Optical Signal Adaptive Processing Antenna
Beamforming Null Steering
Pgs: 60 Classification: U Security Marks:

Accession #:U00473 AD #:
TITLE: Ballistic Missile Defense, Battle Management - Command,
Control, Communications and Intelligence (BMD BM/C3I)
AUTHOR: Peterson, C.J.
DATE: 10/31/84 Report #:
Corp.Author: Mitre Corporation

Index Terms: BMD C3I Battle Management Intelligence
Pgs: 29 Classification: U Security Marks:

Accession #:U00474 AD #:
TITLE: United States Military Posture - Fiscal Year 1987
AUTHOR:
DATE: 12/30/85 Report #:
Corp.Author: Organization of the Joint Chiefs of Staff

Index Terms: Military Posture Security Challenge Strategic
Requirement Resource Commitment Global Reality
Pgs: 99 Classification: U Security Marks:

Accession #:U00475 AD #: ADD110047
TITLE: Dispersion Hardened Beryllium
AUTHOR: Webster, D.; Karlak, R.F.; Vidoz, A.E.
DATE: 08/25/73 Report #: 66
Corp.Author: Lockheed Missiles and Space Co., Inc., Palo Alto, CA

Index Terms: Beryllium Dispersion BeO Particle Size
Recrystallization Temperature Creep Result
Pgs: 5 Classification: U Security Marks:

Accession #:U00476 AD #:
TITLE: Formula for Action - Report to the President on Defense
Acquisition
AUTHOR:
DATE: 04/01/86 Report #:
Corp.Author: Blue Ribbon Commission on Defense Management

Index Terms: Defense Acquisition Task Force Streamline
Organization Procedure Technology Cost Performance
Pgs: 45 Classification: U Security Marks:

Accession #:U00477 AD #:
TITLE: Spacecraft Concept
AUTHOR: Daniel, C.
DATE: 11/29/84 Report #:
Corp.Author:
Index Terms: Spacecraft Concept
Pgs: 8 Classification: U Security Marks:

Accession #:U00480 AD #:
TITLE: GAMBLE-II Imploding Sodium Plasma - II. Uniformly Filled
Z-Pinch
AUTHOR: Davis, J.; Rogerson, J.E.; Apruzese, J.P.
DATE: 05/08/86 Report #: NRL-MR-5776
Corp.Author: Naval Research Lab., Washington, D.C. 22310

Index Terms: GAMBLE-II Z-Pinch Sodium Plasma
Pgs: 36 Classification: U Security Marks:

Accession #:U00481 AD #:
TITLE: Argon Puff Gas Soft X-Ray Laser
AUTHOR: Apruzese, D.J.; Agritellis, C.; Kepple, P.
DATE: 04/25/86 Report #: NRL-MR-5771
Corp.Author: Naval Research Lab., Washington, D.C. 20375-5000

Index Terms: X-Ray Laser Gas Puff Implosion Non-LTE
Pgs: 39 Classification: U Security Marks:

Accession #:U00482 AD #:
TITLE: Importance of Secondary Electron Collisional Ionization
(Avalanche) for X-Ray Pulses Incident on Missiles-in-Flight
AUTHOR: Bloomberg, H.W.
DATE: 05/14/85 Report #: DNA-TR-85-214
Corp.Author: Beers Associates, Inc., P.O. Box 2549, Reston, VA
22090-0549
Index Terms: Avalanche Air Chemistry Nuclear Weapon Effect
Secondary Electron X-Ray Pulse Ionization Swarm Theory
Pgs: 52 Classification: U Security Marks:

Accession #:U00483 AD #: ADA164890
TITLE: Report on the IST/IDA Gamma-Ray Laser Workshop, 21-22 May 1985
AUTHOR: Balco, B.; Cohen, L.; Hartmann, F.X.
DATE: 11/01/85 Report #: M-122
Corp.Author: Institute for Defense Analyses, 1801 N. Beauregard St., Alexandria, VA 22311
Index Terms: Gamma-Ray Laser Graser Mossbauer Effect Borrmann Superradiance Nuclear-Magnetic Resonance
Pgs: 26 Classification: U Security Marks:

Accession #:U00484 AD #:
TITLE: Operational Concept Document for the Battle Management/Command, Control & Communications (BM/C3)
AUTHOR: Pharr, D.F.
DATE: 05/15/86 Report #: BMC3-0036-B601
Corp.Author: COLSA, Inc., 1535 Sparkman Dr., P.O. Box 4710, Huntsville, AL 35815-4710
Index Terms: Battle Management Command Control Communication Graphical Display Decision Aid SIMSTAR
Pgs: 28 Classification: U Security Marks:

Accession #:U00485 AD #:
TITLE: 1973 NASA Mission Model
AUTHOR:
DATE: 04/01/73 Report #: N73-29984
Corp.Author: George C. Marshall Space Flight Center, Alabama 35812
Index Terms: NASA Mission Model 1973 DoD Shuttle Utilization
Pgs: 19 Classification: U Security Marks:

Accession #:U00486 AD #:
TITLE: Strategic Defense Initiative Institute: An Assessment of DoD's Current Proposal
AUTHOR: DiMaggio, Cosmo; Davey, M.E.
DATE: 05/30/86 Report #:
Corp.Author: Congressional Research Service, Science Policy Research Division
Index Terms: SDI DoD Assessment
Pgs: 23 Classification: U Security Marks:

Accession #:U00487 AD #: ADA021214
TITLE: Bibliography of Soviet Laser Developments, # 21 Jul - Sep 1975
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 01/15/76 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD 20852
Index Terms: Solid State Chemical Liquid Gas Laser Component Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 103 Classification: U Security Marks:

Accession #:U00488 AD #: ADA025913
TITLE: Bibliography of Soviet Laser Developments, # 22 Oct - Dec
1975
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 05/17/76 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 158 Classification: U Security Marks:

Accession #:U00489 AD #: ADA030819
TITLE: Bibliography of Soviet Laser Developments, # 23 Jan - Mar
1976
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 09/15/76 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 142 Classification: U Security Marks:

Accession #:U00490 AD #: ADA107305
TITLE: Bibliography of Soviet Laser Developments, # 26 Oct - Dec
1976
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 07/25/77 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 135 Classification: U Security Marks:

Accession #:U00491 AD #: ADA107304
TITLE: Bibliography of Soviet Laser Developments, # 27 Jan - Feb
1977
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 11/21/77 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 96 Classification: U Security Marks:

Accession #:U00492 AD #: ADA107306
TITLE: Bibliography of Soviet Laser Developments, # 28 Mar - Apr
1977
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 02/24/78 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component

Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 83 Classification: U Security Marks:

Accession #:U00493 AD #: ADA070763
TITLE: Bibliography of Soviet Laser Developments, # 29 May - Jun
1977
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 05/12/78 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 97 Classification: U Security Marks:

Accession #:U00494 AD #: ADA070764
TITLE: Bibliography of Soviet Laser Developments, # 30 Jul - Aug
1977
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 08/07/78 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 73 Classification: U Security Marks:

Accession #:U00495 AD #: ADA070765
TITLE: Bibliography of Soviet Laser Developments, # 31 Sep - Oct
1977
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 10/04/78 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 94 Classification: U Security Marks:

Accession #:U00496 AD #: ADA070766
TITLE: Bibliography of Soviet Laser Developments, # 32 Nov - Dec
1977
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 11/24/78 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 91 Classification: U Security Marks:

Accession #:U00497 AD #: ADA070759
TITLE: Bibliography of Soviet Laser Developments, # 33 Jan - Feb
1978
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 12/27/78 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 132 Classification: U Security Marks:

Accession #:U00498 AD #: ADA072356
TITLE: Bibliography of Soviet Laser Developments, # 37 Sep - Oct
1978
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 06/06/79 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 100 Classification: U Security Marks:

Accession #:U00499 AD #: ADA079797
TITLE: Bibliography of Soviet Laser Developments, # 39 Jan - Feb
1979
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 10/10/79 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 113 Classification: U Security Marks:

Accession #:U00500 AD #: ADA080714
TITLE: Bibliography of Soviet Laser Developments, # 40 Mar - Apr
1979
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 11/27/79 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 111 Classification: U Security Marks:

Accession #:U00501 AD #: ADA080733
TITLE: Bibliography of Soviet Laser Developments, # 41 May - Jun
1979
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 01/10/80 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component

Nonlinear Optic Spectroscopy Ultrashort Pulse

Pgs: 93

Classification: U

Security Marks:

Accession #:U00502

AD #: ADA090190

TITLE: Bibliography of Soviet Laser Developments, # 44 Nov - Dec 1979

AUTHOR: Hibben, S.G.; Minkus, C.

DATE: 08/13/80

Report #:

Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD 20852

Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse

Pgs: 147

Classification: U

Security Marks:

Accession #:U00503

AD #: ADA095538

TITLE: Bibliography of Soviet Laser Developments, # 45 Jan - Feb 1980

AUTHOR: Hibben, S.G.; Minkus, C.

DATE: 10/28/80

Report #:

Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD 20852

Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse

Pgs: 125

Classification: U

Security Marks:

Accession #:U00504

AD #: ADA097832

TITLE: Bibliography of Soviet Laser Developments, # 46 Mar - Apr 1980

AUTHOR: Hibben, S.G.; Minkus, C.

DATE: 02/05/81

Report #:

Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD 20852

Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse

Pgs: 143

Classification: U

Security Marks:

Accession #:U00505

AD #: ADA105585

TITLE: Bibliography of Soviet Laser Developments, # 47 May - Jun 1980

AUTHOR: Hibben, S.G.; Minkus, C.

DATE: 04/09/81

Report #:

Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD 20852

Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse

Pgs: 116

Classification: U

Security Marks:

Accession #:U00506 AD #: ADA105578
TITLE: Bibliography of Soviet Laser Developments, # 48 Jul - Aug
1980
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 06/24/81 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 130 Classification: U Security Marks:

Accession #:U00507 AD #: ADA115104
TITLE: Bibliography of Soviet Laser Developments, # 51 Jan - Feb
1981
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 03/05/82 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 136 Classification: U Security Marks:

Accession #:U00508 AD #: ADA122916
TITLE: Bibliography of Soviet Laser Developments, # 53 May - Jun
1981
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 07/20/82 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 156 Classification: U Security Marks:

Accession #:U00509 AD #: ADA124425
TITLE: Bibliography of Soviet Laser Developments, # 54 Jul - Aug
1981
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 10/18/82 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 128 Classification: U Security Marks:

Accession #:U00510 AD #: ADA126023
TITLE: Bibliography of Soviet Laser Developments, # 56 Nov - Dec
1981
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 01/03/83 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
53

Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 119 Classification: U Security Marks:

Accession #:U00511 AD #: ADA129467
TITLE: Bibliography of Soviet Laser Developments, # 58 Mar - Apr
1982
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 04/22/83 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 138 Classification: U Security Marks:

Accession #:U00512 AD #: ADA131646
TITLE: Bibliography of Soviet Laser Developments, # 59 May - Jun
1982
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 06/01/83 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 131 Classification: U Security Marks:

Accession #:U00513 AD #: ADA133932
TITLE: Bibliography of Soviet Laser Developments, # 60 Jul - Aug
1982
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 07/15/83 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 121 Classification: U Security Marks:

Accession #:U00514 AD #: ADA137867
TITLE: Bibliography of Soviet Laser Developments, # 61 Sep - Oct
1982
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 08/29/83 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 126 Classification: U Security Marks:

Accession #:U00515 AD #: ADA137854
TITLE: Bibliography of Soviet Laser Developments, # 62 Nov - Dec
1982
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 10/20/83 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 146 Classification: U Security Marks:

Accession #:U00516 AD #: ADA138742
TITLE: Bibliography of Soviet Laser Developments, # 63 Jan - Feb
1983
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 12/09/83 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 153 Classification: U Security Marks:

Accession #:U00517 AD #: ADA141906
TITLE: Bibliography of Soviet Laser Developments, # 64 Mar - Apr
1983
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 03/06/84 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 163 Classification: U Security Marks:

Accession #:U00518 AD #: ADA146189
TITLE: Bibliography of Soviet Laser Developments, # 65 May - Jun
1983
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 05/15/84 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 158 Classification: U Security Marks:

Accession #:U00519 AD #:
TITLE: Gamble-II Imploding Sodium Plasma - I. Calibration of the
Heliumlike Resonance Line as a Pump Source and Detection of
AUTHOR: Davis, J.; Rogerson, J.E.; Apruzese, J.P.
DATE: 04/10/86 Report #: NRL Memorandum Report 5765
Corp.Author: Naval Research Laboratory, Washington, D.C. 20375-5000
Index Terms: Sodium Plasma Imploding Resonance Line Pump X-Ray

Laser
Pgs: 33 Classification: U Security Marks:

Accession #:U00521 AD #: ADA133734
TITLE: RF Systems in Space - Space Antenna Frequency (SARF)
Simulation
AUTHOR: Ludwig, A.C.; Freeman, J.R.; Capp, J.D.
DATE: 04/01/83 Report #: RADC-TR-83-91, Vol. I
Corp.Author: General Research Corp., P.O. Box 6770, Santa Barbara, CA 93111
Index Terms: Simulation Space-Based Radar Fed Phased Array
Pgs: 258 Classification: U Security Marks:

Accession #:U00522 AD #:
TITLE: Future Space Launch Vehicle Planning
AUTHOR: Abbott, D.
DATE: 11/29/84 Report #:
Corp.Author: Rockwell International
Index Terms: Space Launch Vehicle Future
Pgs: 36 Classification: U Security Marks:

Accession #:U00526 AD #: ADA166413
TITLE: Mitigation of Scintillation Effects on Space-Based Radars
Through Adaptive Incoherent Processing
AUTHOR: Knepp, D.L.; Bradford, W.L.
DATE: 04/30/85 Report #: DNA-TR-85-174
Corp.Author: Mission Research Corp., 2300 Garden Rd., Suite 2, Monterey, CA 93940
Index Terms: Space-Based Radar Signal Scintillation Ionospheric Propagation Random Media Performance Noncoherent
Pgs: 58 Classification: U Security Marks:

Accession #:U00527 AD #: ADA037817
TITLE: Bibliography of Soviet Laser Developments, # 24 Apr - Jun 1976
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 01/31/77 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD 20852
Index Terms: Solid State Liquid Gas X-Ray Chemical Gamma Laser Component Spectroscopy Material Crystal Growing
Pgs: 131 Classification: U Security Marks:

Accession #:U00528 AD #: ADA037816
TITLE: Bibliography of Soviet Laser Developments, # 25 Jul - Sep 1976
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 03/31/77 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD 20852

Index Terms: Solid State Liquid Gas X-Ray Chemical Gamma Laser
Component Spectroscopy Material Crystal Growing
Pgs: 103 Classification: U Security Marks:

Accession #:U00529 AD #: ADA070760
TITLE: Bibliography of Soviet Laser Developments, # 34 Mar - Apr
1978
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 02/07/79 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Liquid Gas X-Ray Chemical Gamma Laser
Component Spectroscopy Material Crystal Growing
Pgs: 81 Classification: U Security Marks:

Accession #:U00530 AD #: ADA070761
TITLE: Bibliography of Soviet Laser Developments, # 35 May - Jun
1978
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 03/15/79 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Liquid Gas X-Ray Chemical Gamma Laser
Component Spectroscopy Material Crystal Growing
Pgs: 90 Classification: U Security Marks:

Accession #:U00531 AD #: ADA070762
TITLE: Bibliography of Soviet Laser Developments, # 36 Jul - Aug
1978
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 04/25/79 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Liquid Gas X-Ray Chemical Gamma Laser
Component Spectroscopy Material Crystal Growing
Pgs: 107 Classification: U Security Marks:

Accession #:U00532 AD #: ADA075784
TITLE: Bibliography of Soviet Laser Developments, # 38 Nov - Dec
1978
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 08/06/79 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Liquid Gas X-Ray Chemical Gamma Laser
Component Spectroscopy Material Crystal Growing
Pgs: 111 Classification: U Security Marks:

Accession #:U00533 AD #: ADA086552
TITLE: Bibliography of Soviet Laser Developments, # 42 Jul - Aug
1979
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 02/27/80 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Liquid Gas X-Ray Chemical Gamma Laser
Component Spectroscopy Material Crystal Growing
Pgs: 105 Classification: U Security Marks:

Accession #:U00534 AD #: ADA086553
TITLE: Bibliography of Soviet Laser Developments, # 43 Sep - Oct
1979
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 04/30/80 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Liquid Gas X-Ray Chemical Gamma Laser
Component Spectroscopy Material Crystal Growing
Pgs: 133 Classification: U Security Marks:

Accession #:U00535 AD #: ADA109153
TITLE: Bibliography of Soviet Laser Developments, # 49 Sep - Oct
1980
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 09/16/81 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Gas X-Ray Gamma Liquid Laser
Nonlinear Optic Beam-Target Interaction Ultrashort
Pgs: 122 Classification: U Security Marks:

Accession #:U00536 AD #: ADA116693
TITLE: Bibliography of Soviet Laser Developments, # 52 Mar - Apr
1981
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 05/17/82 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Gas X-Ray Gamma Liquid Laser
Nonlinear Optic Beam-Target Interaction Ultrashort
Pgs: 126 Classification: U Security Marks:

Accession #:U00537 AD #: ADA126022
TITLE: Bibliography of Soviet Laser Developments, # 55 Sep - Oct
1981
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 11/30/82 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Gas X-Ray Gamma Liquid Laser

Pgs: 107 Nonlinear Optic Beam-Target Interaction Ultrashort
Classification: U Security Marks:

Accession #:U0053B AD #: ADA126620
TITLE: Bibliography of Soviet Laser Developments, # 57 Jan - Feb
1982
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 03/02/83 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Gas X-Ray Gamma Liquid Laser
Nonlinear Optic Beam-Target Interaction Ultrashort
Pgs: 154 Classification: U Security Marks:

Accession #:U00539 AD #: ADA149113
TITLE: Bibliography of Soviet Laser Developments, # 66 Jul - Aug
1983
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 07/24/84 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Gas X-Ray Gamma Liquid Laser
Nonlinear Optic Beam-Target Interaction Ultrashort
Pgs: 124 Classification: U Security Marks:

Accession #:U00540 AD #: ADA110857
TITLE: Generation of Correlated Log-Normal Sequences for the
Simulation of Clutter Echoes
AUTHOR: Bomse, F.M.
DATE: 12/01/81 Report #: Professional Paper 323
Corp.Author: Center for Naval Analyses, 2000 N. Beauregard St.,
Alexandria, VA 22311
Index Terms: Clutter Echo Simulation Correlated Sequence
Mathematical Technique
Pgs: 31 Classification: U Security Marks:

Accession #:U00541 AD #:
TITLE: Orbital Transfer Vehicle Concept Definition and Systems
Analysis Study, Final Report: Vol. I, Executive Summary
AUTHOR: Kechum, W.J.; Bialla, P.H.
DATE: 02/01/86 Report #: GDSS-SP-86-011
Corp.Author: General Dynamics Space Systems Division, P.O. Box 85990,
San Diego, CA 92138
Index Terms: Orbital Transfer Vehicle Space-Based Ground-Based
Space Station Propellant Conditioning Delivery
Pgs: 40 Classification: U Security Marks:

Accession #:U00542 AD #:
TITLE: Orbital Transfer Vehicle Concept Definition and Systems
Analysis Study, Final Report: Vol. I, Executive Summary
AUTHOR: Dickman, G.J.; Keeley, J.T.
DATE: 02/01/86 Report #: MCR-86-2601
Corp.Author: Martin Marietta, Denver Aerospace, P.O. Box 179, Denver,
CO 80201
Index Terms: Orbital Transfer Vehicle Space-Based Ground-Based
Space Station Technology Development Programmatic
Pgs: 44 Classification: U Security Marks:

Accession #:U00543 AD #: ADA166676
TITLE: Strategic Offense vs Strategic Defense: Going Back for the
Future
AUTHOR: Phillips, C.E.
DATE: 04/01/86 Report #: ACSC-86-2005
Corp.Author: Air Command and Staff College, Maxwell AFB, AL
Index Terms: SDI Strategic Offense ABM Treaty Analysis
Pgs: 17 Classification: U Security Marks:

Accession #:U00544 AD #:
TITLE: Defended Radius/Population
AUTHOR: Ollin, H.Z.
DATE: 01/16/85 Report #:
Corp.Author: Lincoln Laboratories
Index Terms: Radius Population Regional Terminal Defense System
Concept
Pgs: 17 Classification: U Security Marks:

Accession #:U00545 AD #: ADA151199
TITLE: Bibliography of Soviet Laser Developments, # 67 Sep - Oct
1983
AUTHOR: Hibben, S.G.; Minkus, C.
DATE: 12/05/84 Report #:
Corp.Author: Informatics Inc., 6000 Executive Blvd., Rockville, MD
20852
Index Terms: Solid State Chemical Liquid Gas Laser Component
Nonlinear Optic Spectroscopy Ultrashort Pulse
Pgs: 114 Classification: U Security Marks:

Accession #:U00546 AD #:
TITLE: Report to Congress on the Strategic Defense Initiative -
June 1986
AUTHOR:
DATE: 06/01/86 Report #:
Corp.Author: Dept. of Defense, The Pentagon, Washington, D.C.
Index Terms: SDI Overview Security Technical Objective Ballistic
Missile Defense Goal Capability Program Structure
Pgs: 150 Classification: U Security Marks:

Accession #:U00547 AD #:
TITLE: Effect of U.S. Space Launch Vehicle Problems on the SDI
Decision Timeline
AUTHOR: Manfredi, A.F., Jr.; Dimaggio, C.
DATE: 07/17/86 Report #: 86-783 SPR
Corp.Author: Congressional Research Service

Index Terms: SDI Space Launch Vehicle Timeline
Pgs: 12 Classification: U Security Marks:

Accession #:U00549 AD #: ADA168352
TITLE: Evaluation of Potential Countermeasures to the Strategic
Defense Initiative
AUTHOR: Lafont, D.M.
DATE: 03/01/86 Report #:
Corp.Author: Naval Postgraduate School, Monterey, CA 93943-5000

Index Terms: SDI Countermeasure BMD Star Wars
Pgs: 109 Classification: U Security Marks:

Accession #:U00550 AD #: ADA168147
TITLE: Strategic Defense Initiative, Student Essay
AUTHOR: Mills, W.L.
DATE: 04/01/86 Report #:
Corp.Author: Army War College, Carlisle Barracks, PA 17013

Index Terms: SDI Background Feasibility Technology
Pgs: 25 Classification: U Security Marks:

Accession #:U00551 AD #: ADA168068
TITLE: Strategic Defense Initiative and West European Security
AUTHOR: Messerschmidt, P.H.
DATE: 04/01/86 Report #:
Corp.Author: Army War College, Carlisle Barracks, PA 17013

Index Terms: SDI West European Security ABM Treaty Soviet Violation
Pgs: 27 Classification: U Security Marks:

Accession #:U00553 AD #: ADA169298
TITLE: Moral and Morale Benefits of the Strategic Defense
Initiative
AUTHOR: Poston, J. R.
DATE: 04/01/86 Report #: ACSC-86-2035
Corp.Author: Air Command and Staff College, Maxwell AFB, AL
36112-5542
Index Terms: Moral Morale SDI Nuclear Deterrence Superiority
Retaliation
Pgs: 26 Classification: U Security Marks:

Accession #:U00555 AD #: ADA167425
TITLE: Rome Air Development Center Air Force Technical Objective
Document Fiscal Year 1987
AUTHOR: Crocetti, C.P.
DATE: 12/01/85 Report #: RADC-TR-85-282, RADC-TOD-85-11
Corp.Author: Rome Air Development Center, Griffiss AFB, NY 13441-5700
Index Terms: C3I Information Science Communication Security
Surveillance Electromagnetic Reliability
Pgs: 68 Classification: U Security Marks:

Accession #:U00556 AD #:
TITLE: Development of Instrumentation to Measure Sound, Speed, and
Flow Direction in Dusty Flow Fields
AUTHOR: Honegger, D.G.
DATE: 11/11/85 Report #: DNA-TR-85-369
Corp.Author: J.H. Wiggins Co., Inc., 6695 E. Pacific Coast Highway,
Long Beach, CA 90803
Index Terms: Dusty Gas Flow Electrolytic Cell Direction Mach
Measurement Transducer Piezoelectric Piezoresistive
Pgs: 108 Classification: U Security Marks:

Accession #:U00557 AD #:
TITLE: Evaluation of the Deformation Behavior of Nylon Materials
Used in Ballistic Applications
AUTHOR: Smith, M.T.; Patton, E.M.
DATE: 06/01/86 Report #: BRL-CR-554
Corp.Author: Battelle Pacific Northwest Laboratory, P.O. Box 999,
Richland, WA 99352
Index Terms: Nylon Mechanical Properties Stress-Strain Behavior
Obturator Compression Test Elastic Modulus Yield Point
Pgs: 35 Classification: U Security Marks:

Accession #:U00558 AD #:
TITLE: Software Test and Evaluation Manual, Vol. I - Guidelines
for the Treatment of Software in Test and Evaluation Master
AUTHOR:
DATE: 10/01/85 Report #: GIT-ICS-85/26
Corp.Author: Georgia Inst. of Technology, Atlanta, GA 30332
Index Terms: Software Test Evaluation Defense System Acquisition
Master Plan
Pgs: 63 Classification: U Security Marks:

Accession #:U00559 AD #:
TITLE: Launch and Servicing
AUTHOR: Daniel, C.
DATE: 11/29/84 Report #:
Corp.Author:
Index Terms: Spacecraft Launch Servicing
Pgs: 11 Classification: U Security Marks:

Accession #:U00560 AD #:
TITLE: Discrimination Requirements for Multilayer BMD Systems
AUTHOR: Rocklin, S.
DATE: 01/16/85 Report #:
Corp.Author: Lincoln Laboratories

Index Terms: BMD Multilayer Requirement Discrimination
Pgs: 16 Classification: U Security Marks:

Accession #:U00564 AD #:
TITLE: Strategic Nuclear Weapons, Arms Control, and the NATO
Alliance
AUTHOR: Klinger, G.
DATE: 08/01/85 Report #: P-7128
Corp.Author: Rand Corp., 1700 Main St., Santa Monica, CA 90406-2138

Index Terms: SDI NATO Alliance Arms Control Nuclear Weapon
Pgs: 73 Classification: U Security Marks:

Accession #:U00565 AD #: ADA170925
TITLE: Soviet Union and the Strategic Defense Initiative:
Preliminary Findings and Impressions
AUTHOR: Lambeth, B. S.
DATE: 06/01/86 Report #: N-2482-AF
Corp.Author: RAND Corp., 1700 Main St., Santa Monica, CA 90406-2138

Index Terms: SDI Soviet Union Impression Response Propaganda
System Warfare Space Weapon
Pgs: 55 Classification: U Security Marks:

Accession #:U00566 AD #:
TITLE: Soviet Propaganda Campaign Against the U.S. Strategic
Defense Initiative
AUTHOR:
DATE: 08/01/86 Report #:
Corp.Author: U.S. Arms Control & Disarmament Agency, Washington, DC
20451
Index Terms: Soviet Propaganda SDI Theme
Pgs: 18 Classification: U Security Marks:

Accession #:U00567 AD #:
TITLE: Participation in the Strategic Defense Initiative - A Guide
for U.S. and Allied Firms
AUTHOR:
DATE: 08/01/86 Report #:
Corp.Author: Strategic Defense Initiative Organization, The Pentagon,
Washington, D.C. 20301
Index Terms: SDI Allied Participation Research Development
Surveillance Tracking Acquisition Kill Assessment KEW
Pgs: 70 Classification: U Security Marks:

Accession #:U00568 AD #:
TITLE: Proceedings of the Innovative Science and Technology (IST)
Program Review, September 16-17, 1985
AUTHOR: Balko, B.; Cohen, L.
DATE: 07/01/86 Report #: IDA Memorandum Report M-223
Corp.Author: Institute for Defense Analyses, 1801 N. Beauregard St.,
Alexandria, VA 22311
Index Terms: Sensing Discrimination Data Processing Space Power
Physic Experimentation SDI Directed Energy Concept
Pgs: 587 Classification: U Security Marks:

Accession #:U00570 AD #:
TITLE: New Approach to Arms Control
AUTHOR: Kent, G.A.; Randall, J.D.; Warner, E.L.
DATE: 06/01/84 Report #: R-3140-FF/RC
Corp.Author: Rand Corp., 1700 Main St., Sanata Monica, CA 90406
Index Terms: Arms Control Reduction U.S Soviet Destructive
Capacity Modernization Ballistic Missile Build-Down
Pgs: 50 Classification: U Security Marks:

Accession #:U00571 AD #:
TITLE: Modernizing U.S. Strategic Offensive Forces:
Adminstration's Program and Alternatives
AUTHOR:
DATE: 05/01/83 Report #:
Corp.Author: Congressional Budget Office, Washington, D.C.
Index Terms: U.S. Strategic Offensive Force Modernization Arms
Control Alternative Land-Mobile Missile System Soviet
Pgs: 117 Classification: U Security Marks:

Accession #:U00572 AD #:
TITLE: Strategic Defense and Anti-Satellite Weapons
AUTHOR:
DATE: 10/01/84 Report #: S381-17
Corp.Author: Committee On Foreign Relations, Congressional
Information Services
Index Terms: SDI Anti-Satellite
Pgs: Classification: U Security Marks:

Accession #:U00573 AD #:
TITLE: Strategic Defense Battle Operations Framework
AUTHOR: Small, A.W.; Groveston, P.K.;
DATE: 05/31/85 Report #:
Corp.Author: Mitre Corporation, Burlington Rd., Burlington, MA 01730
Index Terms: Strategic Defense Battle Operation Generic Battle
Model (GBM) Application
Pgs: 139 Classification: U Security Marks:

Accession #:U00574 AD #:
TITLE: SDI Resources Requirements
AUTHOR: Nunn, J.H.
DATE: 04/30/85 Report #:
Corp.Author: National Defense University, Washington, D.C. 20319

Index Terms: SDI Resource Material Facility Manpower
Pgs: 49 Classification: U Security Marks:

Accession #:U00575 AD #:
TITLE: Information Management for Strategic Defense
AUTHOR: Johnston, M.W.
DATE: 07/24/85 Report #:
Corp.Author: Charles Stark Draper Laboratory, 555 Technology Sq.,
Cambridge, MA 02139
Index Terms: SDI Management Digital Processing Throughput
Requirement Fault Damage Tolerance Software
Pgs: 17 Classification: U Security Marks:

Accession #:U00576 AD #:
TITLE: Electrical and Thermal Power Management in Space-Based BMD
Satellites
AUTHOR: Maccabee, B.
DATE: 08/02/85 Report #:
Corp.Author: Naval Surface Weapons Center, Dahlgren Laboratory,
Dahlgren, VA 22448
Index Terms: Electrical Thermal Power Management Space-Based BMD
Satellite Prime System Solar-Power Converter Control
Pgs: 90 Classification: U Security Marks:

Accession #:U00577 AD #:
TITLE: Selected Logistics Aspects of the PAVE PAWS Expansion and
BMEWS Upgrade Program
AUTHOR:
DATE: 06/26/86 Report #: 5215212
Corp.Author: Air Force Audit Agency, Norton Air Force Base, CA 92409
Index Terms: Logistic Ballistic Missile Early Warning System
Computer PAVE PAWS
Pgs: 30 Classification: U Security Marks:

Accession #:U00579 AD #: ADA167630
TITLE: Modeling and Analysis of Uncertainties in Survivability and
Vulnerability Assessment
AUTHOR: Wong, F. S.
DATE: 03/01/86 Report #: R 8583
Corp.Author: Weidlinger Ass., 620 Hansen Way, Suite 100, Palo Alto,
CA 94304
Index Terms: Survivable Vulnerable Buried Structure Blast Shock
Expert Opinion Stochastic Equation Uncertainty Random
Pgs: 124 Classification: U Security Marks:

Accession #:U00581 AD #:
TITLE: SDI (Strategic Defense Initiative) Program: Evaluation of
DOE's (Department of Energy's) Answers to Questions on
AUTHOR:
DATE: 06/01/86 Report #: GAO/NSIAD-86-140BR
Corp.Author: General Accounting Office, Washington, D.C.
Index Terms: SDI Evaluation X-Ray Laser Experiment Nuclear Test
Pgs: 12 Classification: U Security Marks:

Accession #:U00585 AD #:
TITLE: U.S. Strategic Force Modernization and SDI: Four Key Issues
AUTHOR: Lewis, K.L.
DATE: 03/01/86 Report #: P7214
Corp.Author: Rand Corp., 1700 Main St., Santa Monica, CA 90406
Index Terms: SDI Strategic Force Modernization Offense Environment
Defense Budget Suppression Transition Implication
Pgs: 24 Classification: U Security Marks:

Accession #:U00587 AD #:
TITLE: Preliminary Analysis and Test Results For Circuit Cards in
X-Ray and Gamma Ray Environments
AUTHOR: Mann, E.B.; Zimmerman, W.R.
DATE: 01/10/86 Report #: DNA-TR-86-28
Corp.Author: Electro-Magnetic Applications, Inc., P.O. Box 8482,
Albuquerque, NM 87198
Index Terms: IEMP X-Ray Gamma Ray Circuit Card Radiation Effect
Pgs: 56 Classification: U Security Marks:

Accession #:U00588 AD #:
TITLE: C3I: What's Ahead for Programs, Procurment, Policy and
Technology
AUTHOR: Marsh, A.K.
DATE: 01/01/86 Report #: ISBN 0-935453-10-5
Corp.Author: Pasha Publications, Inc., 1401 Wilson Blvd., Suite 910,
Arlington, VA 22209-2306
Index Terms: Command Control Communication Intelligence C3I
Satellite Technology Procurment Policy SDI Battle
Pgs: 124 Classification: U Security Marks:

Accession #:U00589 AD #:
TITLE: High Energy Surge Arrester Technology Development - Part
II, Phase I
AUTHOR: Tasca, D. M.
DATE: 02/28/86 Report #: B6SDS4239
Corp.Author: General Electric Co., Space Systems Div., P.O. Box 8555,
Philadelphia, PA 19101
Index Terms: High Energy Surge Arrester Solid State Self
Recovering Metal Oxide Varistor Saturable Magnetics
Pgs: 130 Classification: U Security Marks:

Accession #:U00590 AD #: ADA169659
TITLE: Investigation of Expert Systems Usage for Software
Requirements Development in the Strategic Defense
AUTHOR: Chien, Y. T.; Liebowitz, J.
DATE: 06/10/86 Report #: NRL-8968
Corp.Author: Naval Research Lab., Washington, D.C. 20375-5000

Index Terms: Expert System Software Design SDI
Pgs: 31 Classification: U Security Marks:

Accession #:U00591 AD #: ADA169635
TITLE: Phase Array Laser System (PALS)
AUTHOR: Schnurr, A. D.; Meisenholder, S.; Litvak, M.; Quon, S.;
Koop
DATE: 07/01/86 Report #: N0001-85-C-2338
Corp.Author: TRW Space and Technology Group, Redondo Beach, CA 90278

Index Terms: Phased Array Laser System PALS Oscillator Beam
Space-Based Mission Requirement Guideline Analysis
Pgs: 146 Classification: U Security Marks:

Accession #:U00592 AD #: ADA171145
TITLE: Implications of the Strategic Defense Initiative for ABM
Treaty
AUTHOR: Schneider, G. R.
DATE: 02/01/86 Report #: CNA-PP-441
Corp.Author: Center for Naval Analyses, Alexandria, VA 22302-0268

Index Terms: Implication SDI ABM Treaty
Pgs: 14 Classification: U Security Marks:

Accession #:U00593 AD #: ADA170843
TITLE: Role of System Architecture in the Strategic Defense
Initiative
AUTHOR: Snyder, D. M.
DATE: 05/01/86 Report #: AFIT/CI/NR-86-74T
Corp.Author: Air Force Institute of Technology, University of
Pennsylvania, Philadelphia, PA
Index Terms: System Architecture SDI Technology Strategy Ballistic
Missile Defense Weapon Component
Pgs: 51 Classification: U Security Marks:

Accession #:U00594 AD #:
TITLE: Kuiper Infrared Technology Experiment Final Scientific and
Technical Report
AUTHOR: Haapala, C. A.; Benedict-Hall, G. T.
DATE: 08/01/86 Report #: Report 8408
Corp.Author: Aerojet ElectroSystems Co., 1100 West Hollyvale St.,
Azusa, CA 91702
Index Terms: IR Sensor Long Wave Length Silicon Array MC2 Focal
Plane Mosiac Multiplexer
Pgs: 131 Classification: U Security Marks:

Accession #:U00595 AD #:
TITLE: Soviet Views on Military Operations in Space - Stratech
Studies Technologies, Strategies and Policies
AUTHOR: Kipp, J. W.; Monks, A. L.; Stubbs, K. D.; Thomas, R. E.
DATE: 07/01/86 Report #: SS86-1
Corp.Author: Center for Strategic Technology, Texas A&M University
System
Index Terms: Soviet Military Operation Policy Technology Strategy
Implication Cruise Missile Theater
Pgs: 263 Classification: U Security Marks:

Accession #:U00596 AD #:
TITLE: Strategic Defense Initiative: BM/C3 Working Group for
Standards - Final Decomposition
AUTHOR:
DATE: 09/01/86 Report #:
Corp.Author: SDI Program Office, Electronic Systems Div., AFSC,
Hanscom AFB, MA 01731
Index Terms: SDI Battle Management C3 Surveillance Fire Control
System Component Test Exercise Operation
Pgs: 38 Classification: U Security Marks:

Accession #:U00601 AD #:
TITLE: Comparison of Radiation Transport Methods in Axisymmetric
Geometries
AUTHOR: Giuliani, J. L.
DATE: 11/06/86 Report #: NRL-5871
Corp.Author: Naval Research Laboratory, Washington, DC 20375-5000
Index Terms: Radiation Transport Axisymmetric Geometrie
Pgs: 42 Classification: U Security Marks:

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